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**REPORTS OF THE
PRESIDENT AND THE TREASURER
OF HARVARD COLLEGE**

1918-19



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**REPORTS OF THE
PRESIDENT AND THE TREASURER
OF HARVARD COLLEGE**

1918-19



**CAMBRIDGE
PUBLISHED BY THE UNIVERSITY
1920**

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TREASURER'S STATEMENT

PRESIDENT'S REPORT

1918-19

TO THE BOARD OF OVERSEERS: —

The President of the University has the honor to submit the following report for the year 1918-19:

The last annual report covered the period through the armistice and the demobilization of the Students' Army Training Corps. This one deals with the return to normal conditions. But first it may be interesting to insert here a few statistics, compiled to December 5, 1919, relating to the Harvard men who served in the war; and in this list are included all men at any time registered in any department of the University:

Enrolled in the military forces: *		
In the Army of the United States	7,056	
In the Navy of the United States	1,636	
In the armed forces of the Allies †	317	9,009
In the Ambulance ‡	118	
Engaged in war work as civilians	4,248	13,375
Number commissioned as officers	6,565	
Percent of those in the military services who obtained commissions	72.8	
Number of distinctions won	602	
Number who died in active service or as a result of such service	322	
Number who died in ambulance or civil service	23	345

In accordance with the request of the Board of Overseers the Faculty of Arts and Sciences recommended and the

* This does not include the Students' Army Training Corps.

† Forty-six others served in the forces of the Allies, but afterwards entered the Army or Navy of the United States and are classified therewith.

‡ Three hundred and seventy-seven other men in the Ambulance afterwards went into the military services and are classified therewith.

Corporation voted to confer degrees of Bachelor of Arts and of Science for honorable service in the war on undergraduates who should have completed three-fourths of the requirements for those degrees, and who, owing to military service, have been unable to complete the entire course. Three hundred and twenty-one such degrees were conferred at Commencement, and the list of those entitled to them is not yet filled. Forty-one students who were entitled to them have preferred to return and finish their course, while eleven of those who actually received them have nevertheless come back to college.

The return of the soldiers was made easier by beginning courses of instruction afresh in January and April and by a summer session of eleven weeks, or, strictly speaking, by two successive short sessions of six weeks and five weeks. In the first of these there were registered four hundred and thirty-five, in the second three hundred and thirty-four, undergraduates; and in each session thirty-four graduate students. Thus many men had an opportunity to make up work they had lost by absence in the war, when without it they might have been discouraged from returning. Their presence here enabled them to render a further service to the community. In the last week of the second session occurred the strike of the Boston police, and the suggestion was made that the students at the University might aid in maintaining order if the disturbance became so serious as to require action by the authorities of the State. On the day of the strike, therefore, the following notice was issued:

In accordance with its tradition of public service the University desires in a time of crisis to help in any way that it can to maintain order and support the laws of the Commonwealth. I therefore urge all students who can do so to prepare themselves for such service as the Governor of the Commonwealth may call upon them to render.

A. LAWRENCE LOWELL.

Governor Coolidge immediately requested our students to report for service, and, in addition to those who volunteered without notifying us, we have records of one hundred and forty-four undergraduates who enlisted as special police or in the State Guard. They were assured by the College that

they would not be made to suffer in academic standing from their absence, and although the duration of their service has been longer than was expected, everything possible has been done to carry this out. It is a pleasure to acknowledge the courtesy of the military and police officers in arranging their hours of duty to interfere as little as possible with college classes.

In connection with the war and its aftermath, it may be appropriate to say a word here about the present condition of military training. In the spring the War Department sent to Harvard an excellent officer, Col. Robert C. F. Goetz, to organize an artillery unit of the Reserve Officers' Training Corps; and later it sent several guns of different caliber, and a number of horses which are kept at the Commonwealth Armory across the river. Col. Goetz planned a course in harmony with our system of instruction, and in accord with the idea that a student who is to become a reserve officer should have a thorough grounding in the principles of the art of war. The times are not propitious for a military unit, and it was perfectly clear that a beginning could not be made before the opening of the new college year. The men who have returned from active service, and even those who were in the Students' Army Training Corps, are as a rule weary of military training, and they include practically every able-bodied man except in the entering class, while Freshmen are not eager to follow unless upper-classmen lead the way. In spite of this, the new artillery unit has started with one hundred and twenty members — a distinctly satisfactory result under the circumstances, and one that promises a good enrolment in the future.

Although the summer sessions enabled many students to return to their regular work, the University did not assume its normal condition until the opening of the new academic year at the end of September, 1919. In the college the total number of students is much the same as before the war, that is about twenty-five hundred; but they are somewhat differently distributed. The number of unclassified students, who have previously spent a year in another college, is greater by nearly a hundred, while that of the Freshmen is smaller

by about the same figure. This last diminution may be explained in part by an inferior preparation of the candidates for admission, due to the war and showing itself most in the case of the colleges maintaining the highest requirements for entrance. Nevertheless, it is probable that the examinations for admission are themselves not as accurate a test as they ought to be. At those held in June, when by far the greater number of our students are admitted, the examination papers are prepared, and the books under the old plan are read and marked, by the College Entrance Examination Board, a body composed of representatives both of the colleges and of secondary schools. Such a board would seem singularly qualified to judge the work done at school as a preparation for college studies; and its marks are now accepted for admission to Harvard, sixty percent being the passing grade. But an examination of the grading for a number of years shows a strange irregularity. The percentage among all the candidates at the Board examinations who obtained a mark of sixty or more in certain subjects is as follows:*

	1914	1915	1916	1917	1918	1919	Number of candidates 1919
American History	32.7	27.9	21.0	50.4	38.6	34.4	1,803
Intermediate French ..	47.7	65.5	73.2	42.3	54.6	60.7	1,906
Elementary Algebra ..	44.1	43.6	38.2	63.3	74.7	38.7	4,181
Advanced Algebra	66.4	46.0	38.2	74.3	65.5	50.8	520
Plane Geometry	40.8	57.6	38.0	60.6	55.6	35.5	4,442
Solid Geometry	75.8	43.7	26.1	51.2	58.3	53.0	1,230

These are, of course, among the subjects in which the widest variation took place, and that variation is certainly very great. It may be observed that in almost every one of these subjects the proportion obtaining a grade of sixty percent is nearly twice as large in one year as in another. The war may have had some effect on the preparation of the boys, but it is far from explaining the variations, for on the whole

* In 1919 Board Examinations were taken for the first time by candidates for certain women's colleges, but as they took only the comprehensive examinations they are not included in the figures given above

the lowest marks came in 1916 and the highest in 1917; while the years in which the lowest percentage was obtained are not the same in all the subjects, and this is true also of the highest percentage. If the number of candidates were small, wide variations might be due to accidental differences in their proficiency, but these are all subjects commonly offered, and the number of candidates shown in the final column is far too large to be affected by personal variations. Clearly there have been from year to year changes of standard. Such changes are not easily eliminated, and they were found in our own examinations before we accepted those of the Board. Nevertheless, they ought to be avoided so far as possible, for to apply a different measure in successive years is unfair to the boy, disconcerting to the school and undesirable for the college. If the standard is found to be too low or too high, it should be changed gradually and deliberately, with due notice to everyone interested.

The difficulty seems to be that the books are graded mechanically by the readers, so much for each question, while the passing mark is fixed no less mechanically by the college. A painstaking effort is made to prepare examination papers of equal difficulty each year, but no two papers ever are exactly equal in difficulty. There ought, in fact, to be no hard or easy examinations. A hard paper should be marked leniently and an easy paper severely, so that an even standard may be maintained. The proficiency of a large number of school boys is more nearly constant year by year than any series of examination papers can be. Hence the nearest measure of equality in the examinations is the relative success of the candidates in passing them, and this should be a guide and check to the examiners. Not that a fixed proportion should receive certain grades each year. That again would be mechanical and injurious; but the Board, when it finds that the proportion of high or low grades varies much from the normal, should take this into account as a reason for presuming that the standard of measurement, from the varying difficulty of the examination papers or for other reasons, was inaccurate, and should re-grade the books with that in view. If such a course is impracticable, then the colleges

should receive with the marks a statement of the percentage of candidates obtaining certain grades so that they may regulate their passing mark accordingly. The object of entrance examinations is to furnish an important part of the information needed to determine whether the candidate is qualified to undertake the work of the college, and if they are not an accurate measure for that purpose they are defective.

In this matter, as in many others connected with higher education, we need the light of far more statistical knowledge than we now possess. It is not often that an opportunity is presented of finding out how well the rejected men would have done in college if they had been admitted. But such a chance was virtually presented last year, because in compliance with the request of the War Department a large number of young men were admitted to the Students' Army Training Corps who had not completed their high-school work, and could not have passed the entrance examinations. When the Training Corps was abolished they were allowed to remain in college as unclassified students taking the regular courses of instruction. Eighty-five of them did so and stayed throughout the year. These were presumably more inclined to study and better scholars on the whole than the rest of their comrades who did not take advantage of the opportunity; but the marks they obtained were distinctly inferior to those of the average Freshman.

The war has shown the necessity of expert knowledge and therefore of specialized training when a people is called upon to put forth its utmost effort; but it has shown also the value of general education. The excellence of college-bred men as material for military officers, their adaptability and resourcefulness, has been widely recognized in the army. The same qualities are not less important in peace than in war. One of the principal functions of our colleges is to give a broad preparation for citizenship. The expert with a high degree of special training is a necessity in every modern country, and perhaps he was sufficient for a state autocratically ruled; but under a free government the large-minded citizen also is essential. For this purpose education in the immediate problems of the day, political, civic, social, and aesthetic, is often

urged; but it is not enough, because the problems that in later life will confront the youth of today will not be altogether those of the present hour. He must be prepared to solve the problems of the future, and these are as little known and foreseen by us as the questions now pressing were by our fathers, or theirs by an earlier generation. With that object before us we must lay a foundation large and solid. We must train our students to think clearly; to see facts as they are; to be broad and tolerant from the study of past experience, profound from communion with the thoughts of great men, and thereby to distinguish the superficial or ephemeral from the fundamental and enduring. This is the true meaning of the humanities, — the study of what man has thought and done, not excluding what he is thinking and doing at the present time.

Much has been said in previous reports about the importance of treating the student as the unit in education, as the real object to be considered, in short as an end in himself; and the danger has been pointed out of paying too exclusive attention to the single course of instruction, which is in fact a means, not an end. In the last report it was stated that the Faculty of Arts and Sciences had with that object appointed a committee to consider what extension, if any, could be profitably given to the principle of a general final examination in the undergraduate's field of concentration. The committee reported and the Faculty in April voted that these examinations should "be established for all students concentrating in Divisions or under Committees which signify their willingness to try such examinations" and that they "be employed for the members of the present Freshman class." In fact, all the divisions under the Faculty, except those dealing with mathematics and the natural sciences, have voted to make the experiment. The distinction between the scientific fields and others is not irrational, because in the study of the sciences a student cannot pursue an advanced course without constant use of the knowledge he has obtained in his earlier work, and an examination on his final courses is a test of his command of all that has gone before.

The adoption of a comprehensive final examination in the student's main field of work has attracted wide attention, and would seem to be a notable advance in American educational methods. It is not, like the final examinations formerly held in our schools and colleges, a mere review of what he has been taught. That had its merits and defects; but was simply an attempt to make sure that the pupil had not forgotten what he had learned. The object of this examination is different, for it is designed to include much that has not been covered in class. It is a general examination on the subject, and the student must read for himself what his courses have not touched. The aim is to fasten his attention on the subject as a whole, rather than on isolated fragments of it; to lead him to coördinate the information he obtains, whether from his courses or elsewhere; to master the subject and make it his own; and to impress upon him the responsibility for his own education, for real value belongs only to self-education, acquired by personal effort. Teachers can help a man to obtain it, but cannot stuff it into him ready-made.

In connection with the general examination on the field of concentration a change was adopted in the requirements for distribution. As at first established this required that six courses should be taken in subjects remote from the main field of study, and the courses were divided for the purpose into four groups. But the grouping proved in practice somewhat artificial, and led to difficulties without wholly accomplishing its object. Moreover, there was a difference of opinion about the number of courses that ought to be required in this way. The conclusion now reached is based upon the principle that no man ought to be given a degree, certifying a liberal education, who has not in college read some good literature, and learned something of history, of the conceptions of modern science and of the methods of abstract thought. The regulation adopted provides therefore that every student must take at least one course in literature, one in history, one in science, and one in mathematics or philosophy.

The departure from the unrestricted elective system, by rules for the distribution and concentration of studies, and for a general examination upon the latter, rests upon the principle that the duty of the college to its undergraduates is not confined to offering them an opportunity for self-improvement which they may take, neglect or use in any way they please; but involves a responsibility for encouraging the students to take advantage of that opportunity, and for developing so far as possible their capacity for a useful and fruitful life. Another step, based upon the same principle, but applied to the physical condition of the students, was taken at the instance of the Board of Overseers. The Board requested the Faculty of Arts and Sciences to consider the expediency of requiring physical training of all Freshmen. The Committee on the Regulation of Athletic Sports thereupon reported a plan for the purpose, which was unanimously approved by the Faculty, and has been put into effect for the Freshmen entering in September, 1919. It starts with the assumption that the best forms of exercise for young men are competitive sports, and preferably those which can be kept up after leaving college. Unless physically defective, a Freshman, however awkward, is urged to play games with classmates equally clumsy; mere gymnastics being required only as a last resort. Calisthenics are a weariness to the flesh without enjoyment, whereas it is believed that after a man, unused to violent exercise, has learned to play a game with pleasure in his Freshman year, he will continue it of his own accord. The student is allowed to choose his own sport; but is supervised to ensure that he actually takes part in it to the extent required; and, of course, organized college athletics fulfil the requirement. To carry out the plan Dr. Roger I. Lee, the Professor of Hygiene, has the assistance of Mr. William H. Geer, Director of Physical Education, with a corps of subordinates; and a temporary building for winter sports is now being erected near the Freshman Halls.

The annual report of two years ago contained a paragraph upon the moral influence that can be brought to bear on undergraduates, and the means of exerting it. The subject is surely important enough to merit further consideration

with a view of suggesting one line of practical approach. College students can be made to feel the necessity of precision and industry by a high standard of attendance and achievement, or they can be allowed to contract habits of carelessness and slothfulness by laxity of requirement; but their characters cannot be formed by disciplinary regulations, because the object sought is not instinctive obedience to rules, but self-discipline, self-control, and self-direction. They can, however, be profoundly influenced in these matters, either directly by personal contact, or indirectly by the creation of good traditions. Direct personal contact of an intimate character is not possible with a large number of students enjoying the freedom of college life. A few can thus be reached, but unless they affect the rest the influence cannot extend very far and seriously permeate the whole body. To influence a large number of men they must form a community, with common sentiments, aspirations, and interests. In short, they must have a strong consciousness of being bound together by common ties. They must have *esprit de corps*. The fact that this exists to no small degree among college men was observed by officers of the Reserve Officers' Training Corps, who remarked that one of the first efforts in forming any military unit was to create in it such a spirit, but that in the college they found it already developed. Intercollegiate sports have had a considerable effect in producing it; but the community spirit they have fostered has been little used as a means of influencing the student body in other ways; nor is it sufficiently continuous or pervasive to be a basis for affecting the personal characters and standards of the great mass of undergraduates. In order to weld the students into a closely bound community, with traditions strong enough for permanent moral effect, it is highly important that they should be housed in college halls, with an opportunity, at least, to take their meals together. Under such conditions a strong influence can be brought to bear upon the natural leaders, and through them upon the whole body. If wisely and sympathetically used it can do much good; and that without in any degree making the students all alike or reducing their individuality. Both the Athenians

and the Florentines had a remarkably strong community feeling, but they certainly did not suffer from uniformity. At Harvard we believe that compulsion should be as small as possible, and there is no suggestion of extending it in the matter of residence beyond the Freshman year; but it would be a great benefit to have sufficient college dormitories so ordered as to attract the rest of the undergraduates. Private dormitories, maintained for profit, do not accomplish the result, for they inevitably seek to gather those men who can pay a fair rent, and hence tend to segregate the students on the basis of wealth. In the professional schools university dormitories are not so essential, because the students are more mature, their characters and standards nearly formed; yet even in this case provisions for housing them have great advantages.

Turning to the professional schools, the first to demand attention is that of Engineering. In the last report was printed the plan for such a school, adopted by the Governing Boards; and the statement was made that, while the decision of the Supreme Judicial Court of the Commonwealth did not exclude all possible coöperation with another institution, the opinion of the Court seemed to require the instruction to be directed by a Faculty appointed and controlled by Harvard University. At that time negotiations looking to coöperation were proceeding with the Massachusetts Institute of Technology. It was found, however, impossible to reach any agreement mutually satisfactory on the basis of a separate Harvard Faculty, and therefore our School of Engineering has been opened without any connection of this kind. Although we may regret that a close coöperation for mutual benefit and the public interest has proved impracticable, it is a satisfaction that the effort was earnestly and persistently made.

In accordance with the plan adopted, the Harvard Engineering School — after giving instruction during the summer to a few men qualified for second and third-year work — was fully opened at the end of September, 1919. The aim of the School, as embodied in its curriculum, is to lay special

stress upon thorough grounding in the fundamental subjects on which all engineering is based, rather than to teach a little about many forms of application. Here again, as already observed in discussing training for citizenship, the problems which the student will be called upon to solve in practice cannot now be wholly foreseen, and hence the aim will be to give him such an understanding of those presented in the School that he will be able to apply the principles he has learned to the new problems he will meet in his future work. The preamble to the plan adopted by the Governing Boards set forth the importance of making use of the courses in Harvard College so far as is consistent with the curriculum of the School; and in fact the fundamental sciences, such as mathematics, physics, and chemistry, are fully taught in the College. The courses in these subjects in the first and second years are, therefore, with minor exceptions those offered in Harvard College; the third and fourth years being mainly devoted to technical subjects treated only in the School. It may be observed also that the requirements for admission to the College and the School are identical. All this has the advantage that a student passing the entrance examinations for the College is not obliged to decide at once whether or not he will be registered in the School, for if he takes the necessary courses in science, he can transfer from the College to the School at the end of his Freshman or Sophomore year. The regular first-year students in the School are, indeed, expected to live in the Freshman Halls, and are treated as Freshmen, except that being registered in the School they must take such courses as are prescribed by its Faculty. In most of the departments of the School these courses do not occupy the student's whole time, and he is required in each of the first three years to elect one more course, which may be either a technical course given in the School or one chosen from the wide list of subjects offered in the College. The School also provides advanced instruction for graduates ambitious to proceed to the master's or doctor's degree.

The School of Engineering has returned to its old quarters in Pierce Hall and the Rotch Building. A large drill shed,

built for the Radio School, has also been bought, and here the machinery needed for a laboratory of mechanical engineering has been installed. The number of students registered in the School in the autumn of 1919 is as follows:

Doing first year work	27
“ second “ “	33
“ third “ “	37
“ fourth “ “	19
“ fifth “ “	8
Unclassified	2 126

Considering that so far as students are concerned, the School is practically new, this seems a promising enrolment, especially since the ease of transfer from the College, and the nature of the studies pursued by some of the Freshmen, makes it not improbable that the number of first-year men may prove to be decidedly larger than is indicated by the registration.

Both the Law School and the School of Business Administration held special sessions during the summer. These were well attended, as may be seen from the number of students registered.

LAW SCHOOL

First year class	153
Second “ “	66
Third “ “	67
Unclassified	21 307

SCHOOL OF BUSINESS ADMINISTRATION

First year class	91
Second “ “	14
Unclassified	1
Special	21 127

After the brief interval between the summer session and the opening of the regular term at the end of September, a surprising proportion of these students returned to continue their work. This is especially notable in the case of the Business School where hitherto a large part of the men have

not carried their studies beyond the first year. The numbers registered in these two schools at present are as follows:

LAW SCHOOL

First year class	437	
Second " "	220	
Third " "	155	
Unclassified	58	
Special	1	
Graduates	8	879

SCHOOL OF BUSINESS ADMINISTRATION

First year class	293	
Second " "	68	
Unclassified	8	
Special	25	394

This is the largest registration, and much the largest registration in the first-year class, that each of these Schools has ever had. Unless, as is improbable, it is due almost entirely to an arrested accumulation caused by the war, these Schools must be prepared to instruct on a larger scale than ever before; but that implies more teachers and more room. In neither case are instructors of the quality needed easily obtained, and in part they must be trained in the School itself. One difficulty lies in the wide opportunities, and large salaries, now offered, both at the bar and in business, to well trained young men of high promise. For the Law School the question of more room could be solved by adding to Langdell Hall, as soon as possible, the second wing contemplated in the original design. For the Business School the problem is more difficult. During the experimental years, which certainly ought now to be regarded as at an end, the School has occupied such quarters as could be spared in Lawrence Hall, and a couple of rooms, with a space in the stack, at the Widener Library. The time has now come when, if its work is to be properly done, it must have a building of its own.

The Medical School has also a problem of expansion, not in buildings, but in the equipment and teaching force needed to instruct the number of men who apply for admission. The

amount of laboratory material and individual attention now devoted to students of medicine, and the difficulty of increasing rapidly equipment and instructing staff of a high order, has caused several of the best medical schools to limit rigidly the number of students they will admit. If these numbers in the aggregate supply the needs of the community, well and good; but if not, the people suffer, either by a lack of physicians and surgeons, or by forcing many practitioners to study in inferior schools. In such a case more schools of the highest grade ought to be established, or else those which exist ought to enlarge their facilities. All universities and professional schools are public instruments, whose existence is justified by rendering the service which the public needs, and one of the things the public cannot forego is an adequate supply of well trained physicians. It so happened that the applications for admission to our Medical School for the current year, filed by qualified candidates, were far in excess of the number who could at the moment be received; and the instructing staff is now considering whether this increase is due mainly to conditions produced by the war, or whether it is likely to be permanent, and in the latter case how the teaching capacity of the School can profitably be enlarged.

Although it should be the object of the University to do the things it undertakes excellently, rather than to impair its power in these by expanding into new fields, the need of another professional school has been forced upon its attention. Teaching in the public schools and supervision of public education have become parts of a great profession, and those men and women who enter it ought to have an opportunity for a thorough technical training in the art. They ought also to be able to obtain this in the atmosphere of a university, and many of them desire to do so. Now in New England there is no school of university grade for teachers, and many friends of Harvard have long felt that such a school ought to be established here. The greater part of the staff required is already present in the Department of Education, but has hitherto been unable to develop its resources to the necessary point. In the spring of 1919 the General Educa-

tion Board, convinced of the importance of a school of this kind in New England, voted to provide half a million dollars towards an endowment fund of two millions, whereof another half million was to be set aside for the purpose by the University from its general funds, — the income on that sum representing the amount now annually spent on the Department. This left one million to be raised. A portion of it had been subscribed directly for this purpose, when it was decided to make the raising of the rest a part of the endowment fund campaign. The complete sum has now been obtained and the school is expected to open its doors at the beginning of the next academic year. The fund is, most appropriately, to bear the name of President Eliot.

One of the recent additions to the work of the University and one which needs support is the Press. For a great many years the University has done a large part of its own printing for administrative purposes; and the field of usefulness of the college press has gradually extended until, with the encouragement and financial aid of Robert Bacon, it became a real university press, publishing a considerable number of scholarly books. In order to perform this function adequately the Press requires an endowment, for its main object is to publish works of importance to scholars which will not be taken by commercial publishers and cannot be expected to repay the cost of printing. Such a Press is essential to a great university, and in fact it is the complement to the Library. The latter stores knowledge for the use of the scholar, the Press is the means of giving to the world and perpetuating what he has learned and thought. We spend much upon the Library, and it would be wise to spend more upon the Press.

Stimulating creative scholarship is a matter to which we ought to pay more attention, and we may well try to devise effective means of doing it, for many a professor abundantly capable of contributing to the world's stock of knowledge is so hampered by the burden, or rather distraction, of teaching and administrative work that he postpones writing to the time that never comes. In the humanistic subjects, at least,

the difficulty arises not so much in what is commonly called research, for the professor of literature, history, politics, economics or philosophy must be constantly reading and investigating if he would keep abreast of his subject and maintain himself as a good teacher. It is in preparing for formal publication what he has acquired that the strain comes. Collecting the materials can be done at odd times, irregularly and in spite of interruptions; and later when the book has gone to press and the proof sheets come back thick and fast the author is chained to his work, and must keep up with it, whatever else he may have to do. But to put his material into final shape in the actual writing of a book demands for most men much effort, and a considerable period of continuous attention — many hours a day for months and sometimes years. This is the stage where relief from the pressure of other work does most good, and is most likely to ensure definite production that might otherwise not be accomplished. If the function of a university is not only to impart, but also to create, knowledge, then it would be wise to aid professors at this critical period of production, by relieving them for a year or more of a part of their teaching, and perhaps also by supplying them, if necessary, with some expert clerical assistance. In working out such a plan certain conditions must, however, be kept in mind. The number of men who can in this way be helped to write must at any time be very limited; the selection must be made by such imperfect wisdom as can be brought to bear; and however wise the choice, those not selected will be disappointed. Moreover the funds of universities are not limitless, and what is spent for one object cannot be used for another. If departments are constantly pressing for an increase in instructors and courses, or, indeed, unless they are willing to give up some courses for a time, relief from teaching in order to help production will hardly be a possibility. Teaching and writing are both essential to a university, and neither of them should be pressed to the neglect of the other.

Before 1917, a body of alumni, appreciating the needs of the University, proposed to raise an endowment fund of ten

million dollars, a design inevitably postponed by our entering the war. After the armistice the project was resumed, and was made the more imperative by the great rise in prices. This has in effect reduced heavily the salaries of the instructing staff by lessening their purchasing power. Men who had been comfortable found that they could not live as they had done. Professors do not expect to acquire wealth. Their reward comes in other forms; but they do desire, and for its own interest the University desires them, to live comfortably, in a style reasonably appropriate to their position and duties; to lay by enough for illness and old age; to provide in case of their death for those dependent upon them; and to give their children as good an education as they received themselves. This they cannot do on their present salaries at the existing scale of prices, and no one believes that prices will fall to the old level for an indefinite period, if ever. The cry that teachers are now underpaid is universal throughout the land, and everywhere efforts are being made to raise their salaries. It cannot be done by any large increase in tuition fees without debarring from higher education many young men of small means. Moreover, tuition fees provide, as a rule, only a part, and in some cases a small part, of the cost of higher education. In endowed institutions, therefore, salaries can be raised only by increasing the endowment.

Last spring the Endowment Fund Committee prepared its plans, and in order to provide both for increased salaries and for expansion in certain highly necessary directions, set its mark at fifteen million dollars. With a view to giving the alumni actively engaged in the work a more definite impression of the actual condition and needs of the University, they were asked to attend for three days a meeting at Cambridge, humorously known as the "Old Grads' Summer School." Here they conferred with the officers and professors of the various departments of the University. The meeting had the double benefit of enabling them to explain to others the imperative need of funds, and of showing them what the University is doing and striving to do. Alumni naturally assume that the College is in the same condition as when

they graduated; whereas in fact it is constantly moving, moving rapidly, and suggestions or criticisms based upon one state of affairs may be less applicable to quite a different one.

The members of the Endowment Fund Committee, and the alumni who have helped them in the different parts of the country, worked all the summer and autumn with the greatest zeal, and at the moment of writing have gathered subscriptions exceeding eleven millions of dollars, a result highly satisfactory in view of the drain on the resources of givers from income taxes and charitable appeals during and since the war. To the men who have devoted so much time and effort, and to those who have so generously given, the University owes, and posterity will ever owe, a deep debt of gratitude.

Within the academic year covered by this report the University has lost a number of eminent men. The deaths of Oric Bates, of James Jackson Putnam, and of Robert Bacon, which occurred in the autumn and early winter, were mentioned in the last annual report. On January 10, Wallace Clement Sabine, Hollis Professor of Mathematics and Natural Philosophy, and formerly Dean of the School of Applied Science, died under a surgical operation. He had lessened his strength by unstinted labor while working in failing health for the war in Europe, saying that he could risk his life in this work as others did in the field. He leaves the memory of a master in physics, an explorer in acoustics, and an exalted character. Another commanding figure, Edward Charles Pickering, Paine Professor of Practical Astronomy and Director of the Observatory, died on February 3. His long life had been devoted to the Observatory and to the vast collection of stellar photographs which he made there. A third was William Gilson Farlow, Professor of Cryptogamic Botany, occupying the chair he had himself founded, and contributing to its reputation his own extraordinary learning. Two of our younger instructors lost their lives from influenza developing into pneumonia: — on January 24, Gabriel Marcus Green, Faculty Instructor in Mathematics, a man of great promise; and on February 28, Frederic

Schenk, Tutor in History and Secretary to the Committee on the Use of English by Students, whose peculiar value to the College was growing larger year by year.

Two professors on the retired list have died during the year: on January 29, Clarence John Blake, Walter Augustus Lecompte Professor of Otology, *Emeritus*, whose teaching as instructor and professor in the Medical School covered a period of forty-three years; and on May 12, Crawford Howell Toy, Hancock Professor of Hebrew, *Emeritus*, whose great learning had made him at different times in his life a professor of Philosophy, of Astronomy, of Greek, and of Oriental Languages.

Four professors, who have served the University long and zealously, have retired upon their pensions, with the title of *emeritus*. They are Roland Thaxter, Professor of Cryptogamic Botany; Horatio Stevens White, Professor of German; Robert Wheeler Willson, Professor of Astronomy; and George Gray Sears, Professor of Clinical Medicine. Dudley Allen Sargent, for forty years Director of the Hemenway Gymnasium, has also retired upon his pension.

In the Medical School Dr. Hugh Cabot, Clinical Professor of Genito-Urinary Surgery, the devoted leader of the Harvard Surgical Unit which served with the British Army until the end of the war, has accepted the chair of Surgery at the University of Michigan. Dr. Horace David Arnold has resigned as Director of the Graduate School of Medicine after a strenuous labor of seven years; and Dr. Frank Burr Mallory has resigned his position of Associate Professor of Pathology after a service of twenty-five years in the department.

Three professors have left the University to undertake other pursuits. Arthur Dehon Hill, Professor of Law, has resigned to resume practice at the bar. Paul Terry Cherington, Professor of Marketing, has gone to accept a position as Secretary of the National Association of Wool Manufacturers in Boston; and Edwin Francis Gay, Professor of Economics and Dean of the Graduate School of Business Administration, has resigned to become Editor of the *New York Even-*

ing Post. Appointed Dean of the School at its formation in 1907, Professor Gay framed the plan for its work, and guided its development until it became an assured success. Wallace Brett Donham has been appointed in his place as Dean, and at the same time Professor of Business Economics. Three other new professors have been appointed: William McDougall of Oxford, Professor of Psychology, who will not, however, begin his work here until September, 1920; George Byron Roorbach, Professor of Foreign Trade in the School of Business Administration; and Warren Milton Persons, Professor of Economics for three years, in charge of the work in Economic Research. Colonel Robert Charles Frederick Goetz has also been made Professor of Military Science and Tactics, while detailed here to command the Reserve Officers' Training Corps.

The other appointments to professorships are all promotions. They are Lawrence Joseph Henderson, Professor of Biological Chemistry; Alexander Quackenboss, Professor of Ophthalmology; Heinrich Conrad Bierwirth, Professor of German; Percy Williams Bridgman, Professor of Physics; Harvey Nathaniel Davis, Professor of Mechanical Engineering; Robert Matteson Johnston, Professor of Modern History; Melvin Thomas Copeland, Professor of Marketing; Edward Vermilye Huntington, Professor of Mechanics; Arthur Pope, Professor of Fine Arts; George David Birkhoff, Professor of Mathematics; Zechariah Chafee, Jr., Professor of Law; Cecil Kent Drinker, Associate Professor of Applied Physiology; Herbert Wilbur Rand, Associate Professor of Zoölogy; and George Sharp Raymer, Associate Professor of Mining. Edward Deshon Brandegee was unfortunately obliged by pressure of private business to resign his position as Regent, and has been succeeded by Matthew Luce.

Dean Briggs went to Paris as exchange professor in the second half of the year, and at the same time Professor Louis Blaringhem, Professor of Agricultural Biology at the Sorbonne, eminent in his subject of genetics and expert in other sciences, came to us from France; while Professor Louis Allard went to the five Western Colleges.

Exclusive of the Endowment Fund the total gifts during the year add to \$1,280,514.56,* the single gifts of \$25,000 or more being as follows:

Estate of Mrs. Winthrop Sargent, — for the Blue Hill Observatory	\$25,000.00
Edward W. Atkinson, — the Edward Atkinson Fund for the Department of Economics	26,427.50
Estate of Annie L. Dexter, — in memory of Charles Dexter, to encourage profound study of the English Language	27,005.00
Mrs. Ernest B. Dane, \$50,000; Anonymous, \$50,255; — The Wallace C. Sabine Memorial Fund	100,255.00
Alfred Tredway White, — to add to the resources of the Department of Social Ethics	50,000.00
Estate of Mrs. Charles H. Colburn, — to the Medical School for the study of Tuberculosis	97,052.50
Estate of Richard Black Sewall — unrestricted	238,934.00
Anonymous, — James C. Melvin Fund for Preventive and Tropical Medicine	50,000.00
Anonymous, — for the Departments of Architecture and Landscape Architecture	100,000.00
Anonymous Fund No. 4, — additional	50,000.00
Class of 1894, addition to previous gifts for Twenty-fifth Anniversary Fund (making in all \$100,000)	85,000.00

In closing, the attention of the Overseers and of other friends of the University is earnestly drawn to the reports of the several Deans and Directors in charge of the various departments.

A. LAWRENCE LOWELL, *President*.

CAMBRIDGE, December 18, 1919.

* This does not include the payment from the Trustees of the Estate of Gordon McKay from the income of the fund in their hands, or the sums received for pensions from the Carnegie Foundation for the Advancement of Teaching.

REPORTS OF DEPARTMENTS

FACULTY OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of submitting to you a report on the work of the Faculty of Arts and Sciences for the academic year, 1918-19.

Besides the President the Faculty contained one hundred and six Professors, ten Associate Professors, thirty-seven Assistant Professors, four Lecturers, sixteen Instructors, and the Recorder — in all, one hundred and seventy-five members.

The visiting professors were Professor Blaringhem of the University of Paris and Professor Urban of Trinity College.

Instruction in 1918-19

With the following list of courses of instruction that were actually given under the authority of the Faculty, I print a statement of the number and the classification of the students in each course. The figures are those officially returned to the Recorder by the several instructors at the close of the academic year. The abbreviations are those ordinarily used in such lists: *Se.*, Senior; *Ju.*, Junior; *So.*, Sophomore; *Fr.*, Freshman; *Sp.*, Special; *uC.*, Unclassified; *ocC.*, Candidate for the Bachelor's degree out-of-course; *nC.*, Non-Collegiate; *Gr.*, Graduate School of Arts and Sciences; *G.B.*, Graduate School of Business Administration; *Di.*, Divinity; *And.*, Andover Theological Seminary; *L.*, Law School; *Me.*, Medical School; *Dn.*, Dental School; *S.A.*, School of Architecture; *S.L.A.*, School of Landscape Architecture; *B.I.*, Bussey Institution; *Min.S.*, Mining School; *S.S.*, Summer School; *R.*, Radcliffe College; *M.I.T.*, Massachusetts Institute of Technology; *E.T.S.*, Episcopal Theological School; *B.U.*, Boston University; *Instr.*, Instructor; *H.O.*, Health Officer.

Instruction in Military Science and Practice, and instruction for the Naval and Marine Units were given in the first third of the academic year.

Military Science and Practice. Commandants: Colonel CHARLES A. WILLIAMS, U.S.A., Retired; Major RADCLIFFE HERMAN, U.S.A. Marine Unit. Commandant, Lieutenant M. W. VEDDER, U.S.M.C. Naval Unit. Commandant, Rear Admiral J. A. RODGERS, U.S.N., Retired.

ENROLMENT FOR THE FIRST TERM IN THE MILITARY UNITS

	Enlisted in the			Military Total
	S.A.T.C.	Marine Unit	Naval Unit	
Seniors.....	59	2	17	78
Juniors.....	165	7	30	202
Sophomores.....	200	28	53	281
Freshmen.....	158	30	33	221
Unclassified Students.....	55	8	30	93
Candidates for the Degree Out-of-Course.....	7	..	..	7
Total in Harvard College.....	644	75	163	882
The Engineering School.....	22	..	7	29
S. A. T. C. not otherwise classified.....	538	..	..	538
Students in the Marine Unit not otherwise classified.....	..	25	..	25
Students in the Naval Unit not otherwise classified.....	..	..	257	257
Graduate Schools: Arts and Sciences.....	62	5	17	84
Business.....	18	..	4	22
Medical.....	152	..	..	152
TOTAL.....	1436	105	448	1989

Courses given in the first, second, or third term only are indicated by the Roman numerals I, II, III, respectively, prefixed to the figures showing the number of students. Courses extending from January to June are similarly indicated by the Roman numerals II, III, together. Courses not specially marked, or marked by all the Roman numerals I, II, III, ran through the whole year. The figures for the courses in which members of the Military Units and others were enrolled are given for the first and third terms only. The military students include the Students' Army Training Corps, the Naval Unit, and the Marine Corps.

MILITARY SCIENCE

D. Captain F. W. ROGERS, S.A.T.C., Junior Company.

I. 3 Ju., 7 So., 72 Fr., 1 uC. Total 83.

PROBLEMS AND ISSUES OF THE WAR

Professor HASKINS and Professors E. C. MOORE, A. B. HART, TURNER, PLATNER, WOODS, LOWES, GULICK, W. G. HOWARD, McILWAIN, FERGUSON, C. N. JACKSON, HOERNLÉ, and HACK, Doctors WINSHIP, MASON, and SCHENCK, and Messrs. ARRAGON, BRAND, BROWNELL, McNAIR, MERK, J. L. MOORE, STANLEY, and TROTTER.

I. 212 Civ., 1572 Mil. Total 1584.

GROUP 1

SEMITIC LANGUAGES AND HISTORY

For Undergraduates and Graduates:—

E1. Professor KELLNER. — Hebrew. Harper's Elements of Hebrew. Harper's Introductory Hebrew Method and Manual. Selections from the prose narratives of the Old Testament. 1 Se., 1 Di. Total 2.

2. Professor LYON. — Hebrew. Syntax. Extensive reading in the Old Testament. 1 Se., 1 Ju., 1 So., 1 Fr., 3 Di. Total 7.
4. Professor LYON. — The Old Testament. With special reference to the history and the literature of Israel. I. 2 Civ., 1 Mil. Total 3.
II, III. 2 Ju., 3 So., 1uC., 1ocC., 1 Di. Total 8.
8. Dr. WOLFSON. — Post-Biblical Hebrew. Selections from the Talmud, Midrash, and Biblical commentaries. II, III. 1 Se., 1 Ju. Total 2.
9. Dr. WOLFSON. — Jewish Literature and Life from the Second Century to the Present Time. II, III. 3 Se., 5 Ju., 8 So., 1 Fr., 8 uC. Total 25.

Primarily for Graduates: —

- A6. Professor ARNOLD. — Religion of Israel. History of the religious ideas and institutions of Israel from the earliest times to the Maccabean Age. 11 And., 2 Di., 2 Gr. Total 15.
- A7. Professor ARNOLD. — Hebrew: The Poetical Literature of the Old Testament. 1 Ju. Total 1.
- †13. Professor JEWETT. — Arabic. Socin's Grammar; Brünnow's Chrestomathy. 1 Gr. Total 1.
17. Dr. WOLFSON. — Jewish Aramaic. Marti's Biblisch-Aramäische Grammatik; the Aramaic portions of Daniel and Ezra; Inscriptions and Papyri; selections from the Targums; Dalman's Aramäische Dialektproben. II, III. 1 Ju. Total 1.
18. Professors LYON and JEWETT. — Syriac. Brockelmann's Syrische Grammatik; selections from the Peshitto. 1 Gr., 2 Di. Total 3.
- 20a. Professor LYON. — Assyrian. Unpublished inscriptions. 1 Gr. Total 1.
- 20b. Professor JEWETT. — Arabic. Sources for the History of the Crusades. 1 Gr. Total 1.

INDIC PHILOLOGY

For Undergraduates and Graduates: —

- 1a. Professor LANMAN. — Elementary Sanskrit. I. 5 Civ. Total 5.
- 1b. Professor LANMAN. — Elementary Sanskrit (continued). Reading of classical texts (Lanman's Reader). Selections from the epic poems and the fable. Bhagavad-Gītā. II, III. 1 Gr., 3 Ju., 1 Di. Total 5.

Primarily for Graduates: —

- †3. Professor LANMAN. — Advanced Sanskrit. Lanman's Vedic Selections. Whitney's Atharva-Veda. II, III. 1 Gr., 1 Se. Total 2.
- †20c. Professor LANMAN. — (Sanskrit conference). 2 Di. Total 2.

THE CLASSICS

Primarily for Undergraduates: —

GREEK

- G. Asst. Professor C. N. JACKSON. — Course for Beginners. 1 Ju., 1 Fr. Total 2.
- A. Professors WEIR SMYTH, CLIFFORD H. MOORE, E. K. RAND, and Asst. Professor HACK. — Greek Literature. Homer, Iliad, Odyssey; Herodotus. 1 Ju., 2 So., 6 Fr. Total 9.

- B. Professors SMYTH and GULICK and Asst. Professor C. N. JACKSON. — Greek Literature. Plato; Xenophon; Lyric Poets; Euripides. Lectures on the History of Greek Literature. *I. 7 Civ., 1 Mil. Total 8.*

II, III. 1 So., 18 Fr. Total 19.

- E hf. Asst. Professor HACK. — Greek Prose Composition (first course).

II, III. 2 Ju., 1 Fr. Total 3.

2. Asst. Professor C. N. JACKSON. — Greek Literature. Aristophanes; Thucydides; Aeschylus; Sophocles; Euripides.

II, III. 1 Se., 4 Ju., 7 So. Total 12.

- 3 hf. Professor WEIR SMYTH. — Greek Prose Composition (second course).

1 Ju., 1 So. Total 2.

LATIN

- B. Professors A. A. HOWARD, CLIFFORD H. MOORE, E. K. RAND, and Asst. Professor HACK. — Latin Literature. Livy; Terence; Horace, and other Latin Poets. 1 Gr., 1 Ju., 5 So., 30 Fr., 3 uC. Total 40.

- E hf. Professor A. A. HOWARD. — Latin Composition (first course). Translation of English narrative. 1 Ju., 1 So., 1 Fr. Total 3.

1. Professors A. A. HOWARD and CLIFFORD H. MOORE. — Latin Literature. Tacitus; Catullus; Horace. *I. 5 Civ., 2 Mil. Total 7.*

II, III. 3 Ju., 9 So. Total 12.

- 3 hf. Professors A. A. HOWARD and CLIFFORD H. MOORE. — Latin Composition (second course). 3 Ju., 2 So. Total 5.

For Undergraduates and Graduates: —

GREEK

6. Professor WEIR SMYTH and Asst. Professor HACK. — Greek Literature. Demosthenes, Aeschines, Aeschylus, Sophocles, Aristophanes.

I. 2 Civ., 1 Mil. Total 3.

II, III. 1 Gr., 3 Ju. Total 4.

- 7 hf. Professor GULICK. — Greek Prose Composition (third course).

II, III. 1 Gr., 2 Se., 2 Ju. Total 5.

8. Professor GULICK. — Plato (Republic); Aristotle (Ethics); Survey of Greek Philosophy from Thales to Aristotle. *I. 2 Civ., 1 Mil. Total 3.*

II, III. 1 Gr., 2 Se., 2 Ju., 1 Di. Total 6.

15. Asst. Professor HACK. — Homer. II, III. 1 Se., 4 Ju. Total 5.

LATIN

6. Professor A. A. HOWARD. — Latin Literature. Suetonius; Pliny; Juvenal; Martial. II, III. 7 Ju., 2 So. Total 9.

- 7 hf. Professors CLIFFORD H. MOORE and E. K. RAND. — Latin Composition (third course). 1 Gr., 1 Se., 2 Ju. Total 4.

8. Professors CLIFFORD H. MOORE and E. K. RAND. — Latin Literature. Cicero; Lucretius; Plautus. II, III. 3 Se., 1 Ju., 1 So. Total 5.

12. Professor A. A. HOWARD. — History of Latin Literature.

II, III. 1 Gr., 2 Se., 1 Ju. Total 4.

CLASSICAL PHILOLOGY

Primarily for Graduates: —

25. Asst. Professor C. N. JACKSON. — Introduction to the Interpretation and Criticism of Classical Authors. History of Classical Studies.
I. 2 Gr. Total 2.
42. Professor WEIR SMYTH. — History of Later Greek Literature.
I, II. 1 Gr. Total 1.
45. Professor GULICK. — Plato. Timaeus. II, III. 2 Gr. Total 2.
39. Professor A. A. HOWARD. — The Reigns of Claudius and Nero. Suetonius, Tacitus. I. 1 Gr., 1 Se. Total 2.
55. Professor E. K. RAND. — The Works of Ovid.
II, III. 2 Gr., 1 Se., 1 R. Total 4.

20. *The Seminary of Classical Philology*

Professors SMYTH and CLIFFORD H. MOORE, Directors for 1918-19. — Training in philological criticism and research. Text-criticism and interpretation of Greek and Latin authors: for 1918-19, Aeschylus and Plautus.
1 Gr. Total 1.

CLASSICAL ARCHAEOLOGY

For Undergraduates and Graduates: —

- 1a, 1b. Professor CHASE. — Greek, Etruscan and Roman Archaeology.
1 Gr., 2 Se., 1 Ju., 2 So., 1 ocC., 1 Sp. Total 8.

ENGLISH

ENGLISH COMPOSITION AND PUBLIC SPEAKING

Primarily for Undergraduates: —

- A. Mr. HERSEY, Professors KITTREDGE, HURLBUT, GULICK and ROBINSON, Associate Professor WINTER, Drs. MAYNADIER, LONG and BAUM, and Messrs. A. P. STONE, AUSLANDER, COUES, FRENCH, HOOD, LEHMAN, MCNAIR, WERLEIN and WINTERITZ. — Rhetoric and English Composition, Oral and Written. I. 209 Civ., 314 Mil. Total 523.
II, III. 1 Ju., 2 So., 440 Fr., 97 uC., 3 Sp., 16 E. Total 559.
- E. Mr. HOOD. — Special Instruction in English for Foreign Students.
3 Gr., 1 Fr., 3 uC., 8 Sp. Total 15.
- D. Dr. BAUM. — English Composition. I. 8 Civ., 5 Mil. Total 13.
II, III. 1 Ju., 10 So., 5 Fr., 2 uC., 1 ocC. Total 19.
- G. Professor BRIGGS. — Prescribed English. Abbreviated course for certain members of the S. A. T. C. I. 7 Civ., 40 Mil. Total 47.
- F. Mr. HOOD. — Special Instruction in English Composition.
Required, 1 Se., 6 Ju., 10 So., 6 Fr., 11 uC., 1 ocC., 1 L.A., 6 G.B. Total 42.
Volunteer, 1 Gr., 2 G.B., 1 Se., 3 Ju., 6 So., 3 Fr., 2 uC., 3 Sp., 1 E., 1 L. Total 23.
31. Professor HURLBUT. — English Composition. I. 4 Civ., 4 Mil. Total 8.
II, III. 1 Se., 7 Ju., 12 So., 7 Fr., 8 uC. Total 35.
6. Mr. PIER, assisted by Mr. COUES. — English Composition.
I. 25 Civ., 23 Mil. Total 48.
II, III. 18 Se., 69 Ju., 162 So., 12 Fr., 20 uC., 20 ocC., 1 E. Total 302.

22. Dr. MAYNADIER. — English Composition. *I. 5 Civ., 8 Mil. Total 13.*
 II, III. 1 G.B., 6 Se., 19 Ju., 11 So., 6 uC. *Total 43.*
- 10 *hf.* Associate Professor WINTER. — Public Speaking. Vocal training and
 platform practice. *I. 11 Civ., 7 Mil. Total 18.*
 II, III. 7 Se., 34 Ju., 54 So., 10 Fr., 15 uC., 13 ocC., 3 And., 1 Di.
Total 137.
18. Mr. STONE. — The Forms of Public Address.
 1 Gr., 3 Se., 10 Ju., 4 uC., 2 ocC. *Total 20.*

For Undergraduates and Graduates: —

12. Associate Professor COPELAND. — English Composition.
I. 13 Civ., 15 Mil. Total 28.
 II, III. 3 Gr., 3 Se., 7 Ju., 11 So., 1 Fr., 2 ocC. *Total 27.*

Primarily for Graduates: —

5. Professor BRIGGS. — English Composition (advanced course).
I. 7 Civ., 5 Mil. Total 12.
47. Professor BAKER. — English Composition. The Technique of the
 Drama. 1 Gr., 4 Se., 1 uC., 3 Sp. *Total 9.*
- 47a. Professor BAKER. — The Technique of the Drama (advanced course).
 1 Sp. *Total 1.*

ENGLISH LANGUAGE AND LITERATURE

Primarily for Undergraduates: —

28. Professors BRIGGS, KITTREDGE, BAKER, HURLBUT, LOWES, and Mr.
 LEHMAN. — History and Development of English Literature in Outline.
I. 26 Civ., 1 Mil. Total 27.
 II, III. 1 So., 71 Fr., 16 uC. *Total 88.*
41. Professor BLISS PERRY, assisted by Mr. COGGESHALL. — History of
 English Literature from the Elizabethan times to the present.
I. 20 Civ., 18 Mil. Total 38.
 II, III. 7 Se., 31 Ju., 56 So., 3 Fr., 14 uC., 1 ocC., 1 Sp. *Total 113.*

For Undergraduates and Graduates: —

- 3a. Dr. BAUM. — Anglo-Saxon. *I. 2 Gr. Total 2.*
1. Professors KITTREDGE and F. N. ROBINSON. — Chaucer.
 6 Gr., 3 Ju., 1 So., 1 uC. *Total 11.*
32. Professor LOWES. — English Literature, exclusive of the Drama, from
 the beginning of the Sixteenth Century until the Restoration.
 12 Gr., 3 Se., 7 Ju., 1 uC., 2 ocC. *Total 25.*
2. Professor KITTREDGE. — Shakspeare. *I. 14 Civ., 1 Mil. Total 15.*
 II, III. 14 Gr., 12 Se., 24 Ju., 19 So., 3 Fr., 4 uC., 2 ocC. *Total 78.*
- 11b. Professor LOWES. — Milton.
 II, III. 4 Gr., 4 Se., 11 Ju., 13 So., 3 Fr., 4 uC., 2 ocC. *Total 41.*
64. Professor HURLBUT. — Pope and his Time. *I. 6 Civ., 1 Mil. Total 7.*
29. Dr. MAYNADIER. — The English Novel from Richardson to the Pres-
 ent Time. 5 Gr., 9 Se., 11 Ju., 4 So., 1 Fr., 2 uC., 2 ocC. *Total 34.*
- Comparative Literature 19 and 32. (See Comparative Literature, p. 38.)

53. Associate Professor COPELAND, assisted by Mr. McNAIR. — Scott.
II, III. 16 Se., 29 Ju., 32 So., 6 Fr., 1 uC., 7 ocC., 1 E. Total 92.
55. Professor BLISS PERRY. — Tennyson.
III. 11 Gr., 17 Se., 23 Ju., 9 So., 4 uC., 3 ocC., 1 Sp. Total 68.
33. Professor GREENOUGH and Mr. MURDOCK. — American Literature.
II, III. 10 Gr., 1 G.B., 22 Se., 61 Ju., 43 So., 2 Fr., 6 uC., 9 ocC. Total 154.

Primarily for Graduates: —

19. Professor F. N. ROBINSON. — Historical English Grammar.
II, III. 1 Gr. Total 1.
- 3b. Professor KITTREDGE and Dr. BAUM. — Anglo-Saxon. *Béowulf*.
II, III. 6 Gr. Total 6.
4. Professor F. N. ROBINSON and Dr. BAUM. — Early English. English Literature from 1200 to 1450. *Mätzner's Altenglische Sprachproben*.
9 Gr. Total 9.
44. Professor LOWES. — Chaucer. II, III. 3 Gr. Total 3.
14. Professor BAKER. — The Drama in England from 1590 to 1642.
4 Gr., 2 Se. Total 6.
24. Professor LOWES. — Studies in the Poets of the Romantic Period.
I. 1 Gr., 2 Ju., 2 uC., 1 ocC., 1 Di. Total 7.
63. Professor BLISS PERRY. — Emerson.
II. 9 Gr., 13 Se., 10 Ju., 5 So., 2 uC., 4 ocC. Total 43.

Courses of Special Study

20. The Instructors in English held themselves ready to assist and advise competent Graduate Students who might propose plans of special study in the English language or literature. Such plans, however, must in each case have met the approval of the Department.

Professor BLISS PERRY.	1 Gr.	Total 1.
Professor KITTREDGE.	3 Gr.	Total 3.
Professor BAKER.	2 Gr.	Total 2.
Professor LOWES.	4 Gr.	Total 4.
Professor GREENOUGH.	2 Gr.	Total 2.

GERMAN

Primarily for Undergraduates: —

- A. Associate Professor BIERWIRTH, Asst. Professor W. G. HOWARD, and Drs. LIEDER, HERRICK, PETTENGILL, and SCHOENEMANN. — Elementary Course.
I. 87 Civ., 31 Mil. Total 118.
II, III. 1 Se., 3 Ju., 18 So., 135 Fr., 34 uC., 1 ocC., 1 E. Total 193.
- B. Dr. HERRICK. — Elementary Course (counting as two courses).
1 So., 2 Fr., 1 uC. Total 4.
- 1a. Professor VON JAGEMANN and Dr. SCHOENEMANN. — German Prose and Poetry.
I. 15 Civ., 5 Mil. Total 20.
II, III. 2 Ju., 4 So., 13 Fr., 4 uC. Total 23.
- 1b. Dr. LIEDER. — German Prose. Subjects in Military Science, History and Biography.
I. 2 Civ., 5 Mil. Total 7.
II, III. 4 So., 4 Fr., 1 uC. Total 9.

- 1c. Drs. LIEDER and PETTENGILL. — German Scientific Prose. Subjects in Natural Science. I. 8 Civ., 7 Mil. Total 15.
II, III. 1 Gr., 2 Se., 10 Ju., 19 So., 13 Fr., 3 uC. Total 48.
- F. Professor WALZ, Associate Professor BIERWIRTH and Asst. Professor W. G. HOWARD and Drs. HERRICK and PETTENGILL. — Practice in speaking and writing German (first course). I. 8 Civ., 59 Mil. Total 67.
- H. Professor WALZ and Dr. SCHOENEMANN. — Practice in speaking and writing German (second course).
II, III. 1 Se., 2 Ju., 4 So., 7 Fr., 2 uC. Total 16.
- 2b. Professor H. S. WHITE. — Introduction to German Literature of the Eighteenth and Nineteenth Centuries. Lessing, Goethe, and Schiller. German Ballads and Lyrics. 3 Ju., 2 So., 9 Fr., 5 uC. Total 19.
3. Asst. Professor W. G. HOWARD. — Schiller. Der Dreissigjährige Krieg; Wallenstein; Maria Stuart; Die Jungfrau von Orleans; Die Braut von Messina; Gedichte. I. 2 Civ., 2 Mil. Total 4.
II, III. 6 Ju., 3 Fr., 2 uC. Total 11.
4. Professor WALZ. — Goethe. Works of the Storm and Stress Period; autobiographical works; poems; Egmont; Iphigenie; Tasso; Faust. I. 4 Civ., 2 Mil. Total 6.
II, III. 1 Gr., 3 Se., 4 Ju., 2 So., 2 Fr., 3 uC., 1 ocC. Total 16.
- 5 (formerly 2c). Professor H. S. WHITE. — German Prose. Subjects in German History. Freytag; Below (Das ältere deutsche Städtewesen und Bürgertum); Richter (Quellenbuch).
1 Se., 6 Ju., 5 So., 1 Fr., 1 ocC. Total 14.

For Undergraduates and Graduates: —

18. Associate Professor BIERWIRTH. — German Grammar and practice in writing German (advanced course). I Civ., 3 Mil. Total 4.
II. 4 Ju. Total 4.

Comparative Literature 8 and 10. (See Comparative Literature, p. 38.)

- 26a. Asst. Professor W. G. HOWARD. — German Literature in the first half of the Nineteenth Century. Kleist; Uhland; Heine.
II, III. 1 Se., 3 Ju., 1 uC. Total 5.
32. Professor H. S. WHITE. — Bismarck's Life and Writings. Selections from Bismarck's speeches, state papers and private correspondence; with some study of the development of Germany as illustrated in Bismarck's utterances.
II, III. 1 Gr., 4 Se., 9 Ju., 2 So., 1 uC., 1 ocC. Total 18.

Primarily for Graduates: —

- ‡12a. Professor VON JAGEMANN. — Gothic. Introduction to the Study of Germanic Philology. General introduction; phonology.
I. 2 Gr., 2 R. Total 4.
- ‡12b. Professor VON JAGEMANN. — Introduction to the study of Germanic Philology (continued). II, III. 3 Gr., 1 R. Total 4.

Seminary Course

- ‡20a. Professor WALZ. — Goethe in his Maturity. I. 1 Se. Total 1.

ROMANCE LANGUAGES AND LITERATURES

FRENCH

Primarily for Undergraduates: —

- A. Dr. HAWKINS; Asst. Professors E. B. HILL, C. N. JACKSON, WHITTEM, HEILMAN; Dr. HERRICK; Messrs. WESTON, G. L. LINCOLN, RIVERA, and PLACE. — Elementary Course (Military French, first term only). French Grammar, Translation, and Composition. Elementary Course (second and third terms). French Grammar, Translation, and Composition. *I. 58 Civ., 170 Mil. Total 228.*
II, III. 4 Gr., 1 Ju., 8 So., 80 Fr., 50 uC., 1 ocC., 1 Sp., 7 E., 1 And. Total 153.
1. Professor BABBITT, Dr. HAWKINS, and Messrs. RAICHE, G. L. LINCOLN, and PLACE. — French Prose and Poetry. Translation from French into English. *I. 22 Civ., 19 Mil. Total 41.*
II, III. 8 Ju., 32 So., 31 Fr., 10 uC., 1 Sp., 1 E. Total 83.
2. Asst. Professor WHITTEM, and Messrs. WESTON, MERCIER, RAICHE, G. L. LINCOLN, and POUSLAND. — French Prose and Poetry. Corneille; Racine; Molière; Victor Hugo; Alfred de Musset; Balzac; Flaubert; Daudet; Zola. Composition. *I. 53 Civ., 5 Mil. Total 58.*
II, III. 6 Se., 18 Ju., 50 So., 130 Fr., 19 uC., 6 ocC., 2 E. Total 231.
3. Asst. Professor WHITTEM and Mr. RAICHE; Professors G. F. MOORE, HANUS, WIENER, JEFFREY, SPALDING, WRIGHT, ARNOLD; Asst. Professors E. B. HILL, ALLARD, HACK, and DAVISON; Dr. SCHENCK; Messrs. HARRIS, G. L. LINCOLN, and WESTON. — French Composition (intermediate military course, first term only). *73 Civ., 403 Mil. Total 476.*
French Composition (elementary course, second and third terms).
1 Gr., 8 Se., 19 Ju., 71 So., 88 Fr., 17 uC., 2 ocC., 1 E. Total 207.
4. Mr. MERCIER. — French Composition (advanced military course.) *I. 17 Civ., 68 Mil. Total 85.*

For Undergraduates and Graduates: —

5. Mr. MERCIER. — French Composition (advanced course).
II, III. 2 Se., 6 Ju., 19 So., 5 Fr., 4 uC., 4 ocC. Total 39.
6. Professors GRANDGENT and FORD, Asst. Professors ALLARD and MORIZE. — General View of French Literature. *I. 19 Civ., 2 Mil. Total 21.*
II, III. 1 Gr., 6 Se., 32 Ju., 48 So., 11 Fr., 5 uC., 4 ocC. Total 107.
7. Asst. Professor MORIZE. — French Literature in the Nineteenth Century. *I. 7 Civ., 2 Mil. Total 9.*
II, III. 1 Gr., 5 Se., 8 Ju., 8 So., 3 Fr., 2 uC., 2 ocC. Total 29.
9. Professor WRIGHT. — French Literature in the Seventeenth Century. *I. 4 Civ., 1 Mil. Total 5.*
II, III. 1 Gr., 9 Se., 17 Ju., 6 So., 1 uC., 2 ocC. Total 36.
10. Mr. MERCIER. — The Social Background of French Literature.
III. 1 Gr., 8 Se., 22 Ju., 12 So., 4 Fr., 1 uC., 4 ocC. Total 52.
16. Asst. Professor ALLARD and Asst. Professor MORIZE. — The Development of the French Drama in the Nineteenth Century. *I. 1 Civ., 3 Mil. Total 4.*
II, III. 1 Se., 4 Ju., 3 So., 1 uC., 2 ocC. Total 11.

- 18 *hf*. Professor BABBITT. — Chateaubriand and the Beginnings of the French Romantic Movement. 2 Gr., 4 Se., 2 Ju. Total 8.

Comparative Literature 9. (See Comparative Literature, p. 37.)

Primarily for Graduates: —

- †13. Professor SHELDON. — History of French Literature prior to the Fourteenth Century. 1 Gr. Total 1.
- †14. Professors SHELDON and FORD. — French Literature in the Fourteenth and Fifteenth Centuries. 3 Gr. Total 3.
21. Professor WRIGHT. — French Literature in the Sixteenth Century. Origins of French Classicism. 1 Gr., 3 Se., 2 Ju. Total 6.
- 23 *hf*. Professor WRIGHT. — Studies in the French Drama of the Seventeenth Century. 1 Gr., 4 Se., 1 Ju. Total 6.
25. Asst. Professor WHITTEM. — La Fontaine and the Fable in France. III. 4 Se., 5 Ju., 2 So., 1 ocC. Total 12.

ITALIAN

Primarily for Undergraduates: —

1. Mr. WESTON. — Italian Grammar, reading, and composition. Modern Italian stories and plays. I. 2 Civ., 1 Mil. Total 3.
II, III. 1 Gr., 1 Se., 6 Ju., 8 So., 3 Fr., 3 uC. Total 22.

For Undergraduates and Graduates: —

- 4 *hf*. Mr. WESTON. — General View of Italian Literature. 1 Gr., 1 Se. Total 2.
5. Mr. WESTON. — Modern Italian Literature. 1 Gr., 1 Se., 1 Ju. Total 3.
10. Professor GRANDGENT. — The Works of Dante, particularly the Vita Nuova and the Divine Comedy. 5 Gr., 1 Se., 1 Ju., 1 uC. Total 8.

SPANISH

Primarily for Undergraduates: —

1. Asst. Professor WHITTEM, and Messrs. G. L. LINCOLN, RIVERA, and ARRATIA. — Spanish Grammar, reading, and composition. Modern Spanish novels and plays. I. 22 Civ., 3 Mil. Total 25.
II, III. 14 Se., 41 Ju., 70 So., 74 Fr., 18 uC., 4 ocC., 4 E. Total 225.
7. Asst. Professor WHITTEM. — Spanish Composition (elementary course). I. 1 Se., 1 So., 3 Fr., 1 ocC. Total 6.

For Undergraduates and Graduates: —

8. Mr. RIVERA. — Spanish Composition and Conversation (advanced course). II, III. 7 Se., 5 Ju., 3 So., 4 Fr., 2 uC., 1 ocC. Total 22.
- 9 *hf*. Mr. ARRATIA (University of Santiago de Chili). — Spanish Composition and Conversation. I. 2 Civ., 1 Mil. Total 3.
II, III. 1 Se., 3 Ju., 1 So., 1 uC. Total 6.
- 4 *hf*. Professor FORD. — General View of Spanish Literature. 4 Gr., 3 Se., 3 Ju., 3 So., 2 ocC. Total 15.
5. Professor FORD, Asst. Professor WHITTEM, and Mr. RIVERA. — Spanish Prose and Poetry of the Eighteenth and Nineteenth Centuries. I. 5 Civ., 1 Mil. Total 6.
II, III. 1 Gr., 2 Se., 18 Ju., 6 So., 1 Fr., 1 ocC. Total 29.

Primarily for Graduates: —

- ‡3. Professor FORD. — Early Spanish. The Poem of the Cid. Spanish Literature to the sixteenth century. 6 Gr., 1 Se., 1 Di. Total 8.

ROMANCE PHILOLOGY

Primarily for Graduates: —

3. Professor SHELDON. — Old French. Phonology and inflections. The oldest texts. La Chanson de Roland; Chrétien de Troyes; Aucassin et Nicolette. 4 Gr., 1 uC. Total 5.
- ‡4. Professor GRANDGENT. — Provençal. Language and Literature with selections from the poetry of the troubadours. 6 Gr. Total 6.
- ‡7. Professor SHELDON. — Anglo-French and the French Element in English. 1 Gr. Total 1.

Courses of Special Study

20. The Instructors in Romance Languages held themselves ready to assist and advise competent Graduate Students in plans of special study, linguistic or literary. 1 Gr., 1 Se. Total 2.
- ‡20a hf. Professor FORD. — Problems in the Syntax of the Romance Languages. 1 Gr. Total 1.

‡Seminary

Students and instructors met once in two weeks, for the discussion of theses and for research in special fields. During 1918-19, special topics were discussed under the direction of Professor SHELDON and Asst. Professor ALLARD.

CELTIC

Primarily for Graduates: —

1. Professor F. N. ROBINSON. — Old Irish. Grammar and interpretation of texts. Thurneysen's Handbuch des Altirischen. General introduction to Celtic philology. I. 1 Gr. Total 1.
2. Professor F. N. ROBINSON. — Middle Irish. Windisch's Irische Texte. II, III. 2 Gr. Total 2.

SLAVIC LANGUAGES

For Undergraduates and Graduates: —

- 1a. Professor WIENER. — Russian. I. 4 Civ., 4 Mil. Total 8.
II, III. 2 Se., 2 Ju., 1 So., 2 Fr., 2 uC., 2 Sp. Total 11.
- 1c. Professor WIENER. Advanced Russian. II, III. 1 Ju., 1 uC. Total 2.
4. Professor WIENER. — Introduction to the History of Russian Literature. II. 1 Gr., 14 Se., 26 Ju., 12 So., 1 Fr., 5 uC., 5 ocC. Total 64.
5. Professor WIENER. — Tolstoy and his Time. III. 6 Se., 13 Ju., 4 So., 1 Fr., 6 uC., 3 ocC. Total 33.

COMPARATIVE LITERATURE

For Undergraduates and Graduates: —

9. Professor BABBITT. — Rousseau and his Influence. 2 Gr., 7 Se., 5 Ju., 1 So., 3 ocC., 1 uC., 1 Sp. Total 20.

10. Professor WALZ. — The Influence of English Literature upon German Literature in the Eighteenth Century. II, III. 3 Se., 5 Ju., 2 uC. Total 10.
32. Professor BLISS PERRY. — Lyric Poetry. An introduction to the study of poetics, with special attention to the nature and forms of lyric verse.
II. 10 Gr., 18 Se., 32 Ju., 12 So., 1 Fr., 4 uC., 4 ocC. Total 81.
19. Professor BAKER. — The Forms of the Drama.
I. 9 Civ., 4 Mil. Total 13.
II. 6 Gr., 12 Se., 38 Ju., 19 So., 2 Fr., 7 uC., 6 ocC., 2 Sp. Total 92.
8. Professor H. S. WHITE. — Goethe's Faust; with a Study of Kindred Dramas in European Literature. I. 1 Civ., 1 Mil. Total 2.

Primarily for Graduates: —

22. Professor BABBITT. — Literary Criticism since the Sixteenth Century.
10 Gr., 4 Se., 1 uC., 1 ocC., 1 Sp. Total 17.

COMPARATIVE PHILOLOGY

Primarily for Graduates: —

- ‡2a hf. Professor GRANDGENT. — General Introduction to Linguistic Science. Phonetics. 4 Gr., 1 Se. Total 5.

THE FINE ARTS

Primarily for Undergraduates: —

- 1a. Asst. Professor POPE and Mr. MOWER. — Principles of Drawing and Painting, and Theory of Design. I. 9 Civ., 2 Mil. Total 11.
II, III. 1 Se., 3 Ju., 9 So., 21 Fr., 2 uC. Total 36.

For Undergraduates and Graduates: —

- 1c-d. Professor CHASE and Asst. Professor EDGELL. — The History of Ancient and Modern Art.
2 Gr., 7 Se., 19 Ju., 31 So., 22 Fr., 9 uC., 4 ocC. Total 94.
- 1f. Professor PRAY. — Principles of Landscape Architecture, illustrated by a study of examples. II, III. 8 Ju. Total 8.
- 2a. Asst. Professor POPE. — Freehand Drawing. I. 29 Mil. Total 29.
II, III. 3 Se., 1 Ju., 5 So., 4 Fr. Total 13.
- 2b. Asst. Professor POPE. — Freehand Drawing (advanced course).
1 Gr., 2 Se., 6 Ju., 2 So., 1 Fr., 3 ocC., 1 L.A. Total 16.
- 2c. Mr. MOWER. — Drawing and Painting (advanced course).
3 Gr., 1 Se., 5 Ju., 2 So., 1 uC., 1 ocC. Total 13.
- 2f. Mr. FROST. — Perspective. The theory of perspective and its application to architectural subjects. 1 Se., 1 So. Total 2.
- 2g. Mr. FROST. — The Forms of Ancient and of Early Mediaeval Architecture, with special reference to the Classic Styles.
3 Ju., 2 So., 1 uC. Total 6.
- 3a. Mr. C. HOWARD WALKER. — History of the Ancient and Early Mediaeval Styles of Architecture. 2 Ju., 2 So., 2 uC., 7 S.A. Total 13.

- 4a-5a. Mr. C. HOWARD WALKER. — History of Gothic, Renaissance and Modern Architecture. 3 Se., 3 Ju., 7 S.A. Total 13.
- 5c. Asst. Professor EDGELL. — The Central Italian Painters of the Renaissance. III. 1 Gr., 4 Ju., 5 So., 2 Fr., 2 uC., 3 ocC. Total 17.
- 5e. Dr. WINSHIP. — The History of the Printed Book. I, II. 1 Gr., 6 Se., 2 Ju., 1 So., 1 uC., 3 ocC. Total 14.
- 8a. Asst. Professor POPE and Mr. MOWER. — Theory of Design. II, III. 2 Gr., 1 Ju., 1 Fr. Total 4.
- 9c. Mr. FROST. — History and Development of the House. III. 1 Gr., 15 Se., 22 Ju., 37 So., 3 Fr., 5 uC., 9 ocC., 1 Sp. Total 93.
- 10b. Associate Professor HUMPHREYS. — Elementary Architectural Design. Elements of Architectural Form. The Orders. Introductory Problems in Architectural Design. II, III. 2 Se. Total 2.

Primarily for Graduates: —

Courses of Special Study

- 20c. Dr. ROSS. — Theory and Practice of Drawing and Painting. 1 Gr. Total 1.
- 20d. Professor CHASE. — History of Ancient Art. 1 Gr. Total 1.
- 20f. Mr. E. W. FORBES. — History of Italian Art. 1 Gr. Total 1.
- 20g. Asst. Professor POPE. — History of Painting. 1 Gr. Total 1.
- 20i. Dr. WINSHIP. — History of Printing. 2 Se., 1 Ju. Total 3.
- 20k. Professor PRAY. — History of City Planning. 1 Gr. Total 1.

MUSIC

For Undergraduates and Graduates: —

1. Asst. Professor HEILMAN and Mr. BALLANTINE. — Harmony, the Grammar of Music. I. 5 Civ., 2 Mil. Total 7.
II, III. 6 Fr., 2 uC. Total 8.
- 1a. Associate Professor SPALDING. — Advanced Harmony and Harmonic Analysis. II, III. 1 Se., 1 Ju., 3 So. Total 5.
2. Asst. Professor DAVISON. — Counterpoint. II, III. 3 Ju. Total 3.
3. Asst. Professor E. B. HILL. — History of Music from the Time of Bach to the Present Day. II, III. 6 Se., 16 Ju., 20 So., 9 Fr., 3 uC., 3 ocC., 1 E. Total 58.
4. Associate Professor SPALDING and Mr. BALLANTINE. — The Appreciation of Music; analytical study of masterpieces from the point of view of the listener. 1 Gr., 12 Se., 34 Ju., 29 So., 11 Fr., 15 uC., 3 ocC., 1 Sp. Total 106.

Primarily for Graduates: —

- 4b. Asst. Professor E. B. HILL. — D'Indy, Fauré, Debussy. II, III. 2 Se., 2 Ju., 1 uC., 1 ocC., 1 Sp. Total 7.
20. Advanced Work in Original Composition. 1 uC. Total 1.

GROUP II

HISTORY OF SCIENCE

For Undergraduates and Graduates: —

1. Professor HENDERSON. — History of the Physical and Biological Sciences (introductory course).
2 Gr., 1 G.B., 6 Se., 2 Ju., 2 So., 1 uC., 1 Sp. Total 15.

PHYSICAL SCIENCES

PHYSICS

Primarily for Undergraduates: —

- B. Professors HALL and PALMER (Haverford College), and Mr. PHINNEY. — Elementary Physics. I. 28 Civ., 48 Mil. Total 76. (Of this number 44 completed a whole course at the end of the second term.)
II, III. 1 Gr., 1 Se., 11 So., 15 Fr., 11 uC., 2 Sp. Total 41.
- C. Professors SABINE and PALMER (Haverford College), SHOWMAN (Colorado School of Mines), Asst. Professors H. N. DAVIS and BRIDGMAN, and Messrs. DUNCAN, BLACK, and SCHAEFFER. — Experimental Physics. — Mechanics, Sound, Heat, Light, Magnetism, and Electricity.
I. 56 Civ., 161 Mil. Total 217.
II, III. 2 Gr., 5 Se., 22 Ju., 51 So., 73 Fr., 25 uC., 3 ocC., 2 Sp., 11 E.
Total 194.

For Undergraduates and Graduates: —

2. Professor LYMAN and Mr. SCHAEFFER. — Light.
II, III. 1 Se., 1 Ju., 1 So. Total 3.
3. Asst. Professor CHAFFEE and Mr. SCHAEFFER. — Electrostatics, Electrokinematics, and parts of Electromagnetism.
1 Se., 4 Ju., 5 So. Total 10.
- 12a. Mr. FIELD. — Electrical Conduction in Gases, and Radioactivity, with special reference to Modern Theories of the Constitution of Matter.
II, III. 1 Gr., 3 Se., 3 Ju., 5 So., 1 E. Total 13.
- 17a. Mr. FIELD. — Radio Communication. I. 10 M. I. T. Total 10.
- 4a. Asst. Professor CHAFFEE. — The Theory of Transient Phenomena and Alternating Currents. II, III. 2 Gr., 1 Ju., 2 uC. Total 5.
- 4b. Professors PIERCE and CHAFFEE and Mr. FIELD. — Maxwell's Electromagnetic Theory. Electric Oscillations and Electric Waves.
II, III. 5 Gr., 2 uC. Total 7.
5. Professor PIERCE. — Light. 1 Se., 1 Ju., 1 So. Total 3.
- 6a. Professor HALL. — Elements of Thermodynamics.
I. 4 Civ., 2 Mil. Total 6.
- 6b. Professor HALL. — Modern Development and Applications of Thermodynamics. II, III. 4 Gr., 1 Se., 1 uC. Total 6.
15. Professor PIERCE. — Radiation and the Quantum Theory.
II, III. 3 Gr. Total 3.
18. Professors OSGOOD and SABINE. — Ballistics. I. 3 Civ., 27 Mil. Total 30.

Primarily for Graduates: —

17. Professor HALL. — The Kinetic Theory of Gases. II, III. 1 Gr. Total 1.
 9. Asst. Professor BRIDGMAN. — The Classical Theory of Electricity and Magnetism. II, III. 5 Gr. Total 5.

Courses of Research

- 20c. Professor PIERCE. — Radiation and Electromagnetic Waves. 1 Gr. Total 1.
 20d. Professor DUANE. — Radioactivity. 2 Gr. Total 2.
 20e. Professor LYMAN. — Light of Short Wave-lengths. 1 Gr. Total 1.
 20g. Asst. Professor BRIDGMAN. — Phenomena at High Pressures. 1 Gr. Total 1.
 20h. Asst. Professor CHAFFEE. — Electric Oscillations. 1 Gr. Total 1.

ENGINEERING SCIENCES

Primarily for Undergraduates: —

3. Associate Professors KENNEDY and HUMPHREYS and Messrs. FROST, NINDE, and THOROGOOD. — Mechanical Drawing. Use of instruments. Projections and descriptive geometry. Freehand sketching. Tracing and blue printing. I. 27 Civ., 69 Mil. Total 96.
 II, III. 1 Gr., 3 Se., 16 Ju., 26 So., 19 Fr., 8 uC., 3 ocC., 1 Sp., 17 E. Total 94.
- 3b. Mr. FROST. — Descriptive Geometry, Stereotomy, Shades and Shadows. 4 Se., 4 Ju., 4 So., 3 Fr., 1 ocC. Total 16.
- 4a. Professors HUGHES, SMYTH, WOLFF, RAYMER, ATWOOD, L. J. JOHNSON, and PALACHE, Asst. Professor POPE, and Messrs. ATHERTON, PAIGE, and SAYLES. Surveying, Mapping and Map-Reading. I. 26 Civ., 500 Mil. Total 526.
 III. 1 Gr., 10 Se., 13 Ju., 8 So., 12 Fr., 8 uC., 3 ocC., 10 E. Total 65.
5. Professor L. J. JOHNSON. — Mechanics. I. 5 Civ., 36 Mil. Total 41.
 II, III. 4 Se., 27 Ju., 13 So., 1 uC., 1 ocC., 15 E. Total 61.
- 6a. Associate Professor KENNEDY and Messrs. NINDE and THOROGOOD. — Mechanical Drawing (second course). I. 3 Civ., 8 Mil. Total 11.
 III. 4 Ju., 8 So., 8 Fr., 8 E. Total 28.
- 6b. Asst. Professor NORTON and Mr. THOROGOOD. — Mechanism. Kinematics as applied to machine elements. I. 3 Civ., 19 Mil. Total 22.
 III. 1 Se., 6 Ju., 2 So., 2 Fr., 2 uC., 1 ocC., 8 E. Total 22.
- 7b. Professors L. J. JOHNSON and SWAIN. — Mechanics. Statics; Strength of Materials; Elementary Structures. I. 4 Civ., 1 Mil. Total 5.
 II. 4 Se., 1 Ju., 14 E. Total 19.
- 7a. Professor SWAIN and Asst. Professor DAVIS. — Mechanics. Dynamics of Moving Bodies; Friction; Efficiency of Machines. III. 1 Se., 1 uC., 1 ocC., 8 E. Total 11.
8. Professors MARKS and CLIFFORD, assisted by Messrs. NINDE, THOROGOOD, and DAWES. — Power — its Generation and Transmission. I. 5 Civ., 22 Mil. Total 87.
 II, III. 1 Gr., 8 Se., 22 Ju., 8 So., 1 uC., 1 ocC., 6 E. Total 47.

10. Professor SAUVEUR. — Principles of Metallurgy.
 III. 2 Gr., 6 Se., 14 Ju., 5 So., 3 Fr., 5 uC., 3 ocC., 8 E. Total 46.

ASTRONOMY

Primarily for Undergraduates: —

1. Dr. STETSON and Mr. C. E. KELLEY. — Descriptive Astronomy.
I. 10 Civ., 109 Mil. Total 119.
 II, III. 5 Se., 4 Ju., 8 So., 4 Fr. Total 21.
- B. Dr. STETSON and Mr. C. E. KELLEY. — Elementary Astronomy.
 II. 11 Se., 15 Ju., 21 So., 11 Fr., 1 uC., 3 ocC., 1 E. Total 63.
- C. Dr. STETSON and Mr. C. E. KELLEY. — Modern Astronomy.
 III. 1 Gr., 5 Se., 13 Ju., 14 So., 20 Fr., 8 uC. Total 61.
- 2A. Dr. STETSON. — Navigation (for members of S. A. T. C.)
I. 10 Civ., 84 Mil. Total 94.
- 2N. Dr. STETSON. — Navigation (for members of the Naval Unit). Theory and Use of Nautical Instruments, Piloting, Dead Reckoning.
I. 7 Civ., 191 Mil. Total 198.
2. Dr. STETSON, Messrs. J. F. COLE and ROBES. — Navigation. Theory and Use of Nautical Instruments. Piloting, Coastwise Navigation.
 III. 8 Se., 16 Ju., 13 So., 9 Fr., 4 uC., 5 ocC. Total 55.
- 2a. Dr. STETSON. — Navigation and Nautical Astronomy. Time, latitude and longitude by sextant; azimuth.
 II, III. 4 Se., 7 Ju., 10 So., 5 Fr., 1 uC., 2 ocC. Total 29.

For Undergraduates and Graduates: —

- 2b. Professor WILLSON and Dr. STETSON. — Practical Astronomy.
 III. 1 Se., 1 Fr. Total 2.
7. Dr. STETSON. — Elementary Astrophysics. Application of the Spectroscope, Photometer and other instruments to the study of the sun and stars.
 III. 1 Ju., 1 So., 1 ocC. Total 3.
4. Dr. STETSON. — Theoretical Astronomy. Introduction to Celestial Mechanics; Determination of Orbits.
 II, III. 4 Se. Total 4.

Primarily for Graduates: —

8. Dr. STETSON. — Stellar Photometry. III. 1 Se. Total 1.

CHEMISTRY

Primarily for Undergraduates: —

- A. Dr. G. A. HILL, Dr. GILMAN, Professor BRUES, Messrs. DORCAS, E. L. JACKSON, SCRIBNER, SELG, and STEARNS. — Elementary Chemistry.
I. 92 Civ., 130 Mil. Total 222.
- E. Dr. G. A. HILL and Mr. WORRALL, assisted by Messrs. NORMAN and O'SHEA. — Elementary Chemistry.
 II, III. 2 Gr., 1 Se., 8 Ju., 14 So., 54 Fr., 14 uC., 2 Sp., 11 E. Total 106.
- B. Dr. G. A. HILL and Mr. WORRALL, assisted by Messrs. DORCAS, NORMAN, O'SHEA and STEARNS. — Inorganic Chemistry.
 II. 2 Gr., 2 Se., 1 Jr., 23 So., 97 Fr., 21 uC., 1 ocC., 6 E. Total 153.

2. Drs. GILMAN and CONANT, assisted by Messrs. BUMP and PITMAN. — Organic Chemistry (elementary course). *I. 29 Civ., 40 Mil. Total 69.*
 III. 3 Gr., 3 Se., 16 Ju., 29 So., 66 Fr., 21 uC., 3 ocC., 2 E. Total 143.
22. Drs. GILMAN and CONANT, assisted by Messrs. TUTTLE and NORMAN. — Experimental Organic Chemistry (elementary course).
I. 14 Civ., 20 Mil. Total 34.
 III. 5 Gr., 2 Se., 5 Ju., 15 So., 29 Fr., 13 uC., 2 ocC. Total 71.
3. Asst. Professor G. S. FORBES, assisted by Messrs. ARONSON, BUMP, GRAY, SCRIBNER, SUN, and THOMPSON. — Qualitative Analysis.
I. 16 Civ., 35 Mil. Total 51.
 II, III. 1 Gr., 2 Se., 15 Ju., 35 So., 7 uC., 1 Sp. Total 61.
8. Professor RICHARDS, assisted by Mr. D. G. FOSTER. — Elementary Theoretical and Physical Chemistry, including the Historical Development of Chemical Theory.
 II, III. 3 Gr., 6 Se., 24 Ju., 15 So., 4 Fr., 9 uC., 1 ocC. Total 62.
23. Asst. Professor RAYMER. — Fire Assaying. Chiefly laboratory work.
 II. 1 Se., 1 Ju., 1 E. Total 3.

For Undergraduates and Graduates: —

4. Professor BAXTER, assisted by Mr. A. K. DUNBAR. — Quantitative Analysis, gravimetric and volumetric. Chiefly laboratory work.
I. 6 Civ., 15 Mil. Total 21.
 II, III. 5 Se., 19 Ju., 8 So., 1 uC. Total 33.
19. Professor BAXTER. — Advanced Quantitative Analysis.
I. 1 Civ., 3 Mil. Total 4.
- 19a. Professor BAXTER, assisted by Mr. A. K. DUNBAR. — Advanced Quantitative Analysis and Gas Analysis.
 II, III. 4 Gr., 6 Se., 1 Ju., 1 ocC., 1 Sp., 3 R. Total 16.
15. Professors KOHLER and F. J. MOORE (Mass. Inst. of Technology), Dr. GILMAN, assisted by Messrs. FOSTER, NORMAN and SELG. — The Carbon Compounds.
I. 4 Civ., 7 Mil. Total 11.
 II, III. 5 Gr., 5 Se., 6 Ju., 2 ocC., 2 R. Total 20.
15. Asst. Professor HENDERSON. — General Biological Chemistry.
 II. 9 Se., 6 Ju., 5 So., 1 ocC. Total 21.
11. Asst. Professor PHELAN (Mass. Institute of Technology), assisted by Mr. JACOBS. — Industrial Chemistry.
I. 6 Civ., 14 Mil. Total 20.
 II, III. 2 Gr., 19 Se., 9 Ju., 4 ocC., 2 R. Total 36.
18. Professor G. C. Whipple and Mr. FAIR. — The Chemistry of Sanitation.
 III. 1 Gr., 1 Se. Total 2.

Primarily for Graduates: —

16. Professor RICHARDS, Asst. Professor G. S. FORBES and an assistant. — Physical Chemistry.
I. 3 Civ., 9 Mil. Total 12.
 II, III. 5 Gr., 10 Se., 2 Ju., 4 ocC. Total 21.
17. Asst. Professor G. S. FORBES. — Electrochemistry.
 II. 4 Gr., 1 Se. Total 5.
13. Asst. Professor G. S. FORBES. — Experimental Electrochemistry.
 III. 3 Gr. Total 3.

17. Dr. G. A. HILL. — Structural Organic Chemistry (advanced course).
III. 9 Se., 1 Ju., 1 Sp. Total 11.

Courses of Research

- 20a. Professor RICHARDS. — Inorganic Chemistry, including Determination of Atomic Weights. 1 Gr. Total 1.
20c. Professor KOHLER. — Organic Chemistry. 3 Gr., 1 Se. Total 4.
20d. Professor RICHARDS. — Physical Chemistry, including Electrochemistry. 3 Gr. Total 3.
20g. Professor BAXTER. — Physical Chemistry. Stoichiometry. 2 Gr. Total 2.
20k. Asst. Professor HENDERSON. — Biological Chemistry. 2 Gr., 1 Se. Total 3.
20l. Dr. G. A. HILL. — Organic Chemistry. 2 Gr., 2 Se., 1 ocC. Total 5.

BOTANY

Primarily for Undergraduates: —

1. Professor OSTERHOUT, Mr. FLINT and other assistants. — Botany.
II. 2 Gr., 6 Se., 11 Ju., 25 So., 27 Fr., 17 uC. Total 88.

For Undergraduates and Graduates: —

3. Professor JEFFREY, assisted by Mr. H. G. PERRY. — Morphology in Relation to Evolution, Plant Production, Reproduction, and Genetics.
III. 2 Gr., 1 Se., 3 Ju., 2 So., 1 Fr. Total 9.
7. Professor FERNALD. — Classification and Distribution of Flowering Plants, with special reference to the Flora of New England and the Maritime Provinces.
II, III. 2 Gr., 1 Se., 1 Ju., 2 So., 1 Fr., 1 ocC., 1 S.L.A. Total 9.
7. Professor FERNALD. — Military Topographic Botany. Topographic Botany of the Northern Hemisphere with special reference to Military Problems.
I. 1 Civ., 5 Mil. Total 6.
9. Professor OSTERHOUT. — Plant Physiology. Respiration, Growth, Reproduction and Irritability. III. 2 Gr., 3 Se., 2 Ju., 1 So., 1 Fr. Total 9.

Courses of Research

- 20a. Professor JEFFREY. — Static and Experimental Morphology. 1 Gr., 1 Se. Total 2.
20d. Professor FERNALD. — Geographic Botany. 1 S.L.A. Total 1.
20e. Professor OSTERHOUT. — Plant Physiology. 4 Gr. Total 4.

ZOOLOGY

GENERAL ZOOLOGY

Primarily for Undergraduates: —

1. Professors PARKER and CASTLE, and Messrs. OLMSTED and DOBSON. — Zoölogy. I. 25 Civ., 15 Mil. Total 40.
III. 2 Gr., 7 Se., 14 Ju., 35 So., 50 Fr., 15 uC., 1 ocC., 1 Sp. Total 125.

3. Asst. Professor H. W. RAND and Mr. BRAY. — Comparative Anatomy of Vertebrates.
 II. 2 Gr., 2 Se., 1 Ju., 3 So., 5 Fr., 2 uC., 1 ocC., 1 Sp. Total 17.

For Undergraduates and Graduates: —

4. Asst. Professor H. W. RAND, assisted by Mr. OLMSTED. — General Histology. *I. 3 Mil. Total 3.*
 III. 3 Gr., 2 Se., 3 Ju., 2 So., 3 Fr., 1 uC., 1 S.P.H. Total 15.
- 5a. Professor MARK and Mr. BRAY. — Embryology of Vertebrates.
 II. 1 Gr., 2 Se., 1 Ju., 1 So., 1 uC., 1 Sp. Total 7.
- 5b. Professor MARK and Mr. BRAY. — Embryology of Vertebrates. Organogeny.
 III. 1 Gr., 1 Ju., 1 So., 1 uC. Total 4.

Primarily for Graduates: —

- ‡14b. Professor PARKER. — The Structure and Functions of Central Nervous Organs. *I. 1 Civ., 1 Mil. Total 2.*

Courses of Research

- 20a. Professor MARK. — Embryology. 1 Gr., 1 Se., 1 Ju. Total 3.
- 20b. Professor MARK. — Cytology, with special reference to Heredity.
 1 Gr. Total 1.
- 20c. Professor PARKER. — The Structural and Functional Basis of Animal Reactions. 3 Gr. Total 3.
- 20g. Asst. Professor H. W. RAND. — Experimental Morphology.
 1 Gr. Total 1.

APPLIED ZOOLOGY

Primarily for Graduates: —

- 7a. Professor WHEELER and Asst. Professor BRUES. — Morphology and Classification of Insects. III. 2 Ju., 1 ocC., 3 B. Total 6.
- 7c. Asst. Professor BRUES. — Practical Entomology.
 III. 1 Ju., 1 ocC., 1 B. Total 3.

PALAEONTOLOGY (see Geology, page 46)

HYGIENE AND SANITATION

For Undergraduates and Graduates: —

2. Mr. FAIR. — Elementary Bacteriology.
 II. 1 Gr., 2 Se., 3 Ju., 4 So., 8 uC., 1 ocC. Total 19.
3. Professor G. C. WHIPPLE and assistants. — Military Hygiene and Sanitation. *I. 48 Civ., 337 Mil. Total 385.*
- 20b. Mr. FAIR. — Bacteriology. 1 uC., 1 ocC. Total 2.

GEOLOGY AND GEOGRAPHY

GENERAL GEOLOGY

Primarily for Undergraduates: —

4. Associate Professor WOODWORTH, assisted by Messrs. VAUGHAN and LINDER. — Introduction to Geology.
 II. 1 Gr., 13 Se., 23 Ju., 23 So., 15 Fr., 5 uC., 3 ocC., 1 Sp. Total 84.

5. Associate Professors WOODWORTH and RAYMOND, assisted by Mr. VAUGHAN. — Historical Geology.

III. 2 Se., 8 Ju., 12 So., 12 Fr., 5 uC., 1 Sp. Total 40.

For Undergraduates and Graduates: —

16. Associate Professor WOODWORTH. — Geology of North America.

II. 1 Gr., 1 Se., 4 Ju., 2 So., 1 Fr., 2 uC. Total 11.

8. Associate Professor WOODWORTH. — Principles of Geology, including History of Geological Science.

III. 1 Gr., 1 Se., 1 Ju., 2 So., 1 uC., 1 ocC. Total 7.

14. Associate Professor RAYMOND. — Stratigraphy.

III. 1 Ju., 1 So., 1 ocC. Total 3.

- Military Geology 1. Associate Professors WOODWORTH and RAYMOND. — Military Geology.

I. 2 Civ., 3 Mil. Total 5.

- Military Geology 2. Associate Professor WOODWORTH. — Advanced Course. Geology of the Continents, with special reference to military problems.

I. 1 Civ., 2 Mil. Total 3.

12. Associate Professor WOODWORTH. — Geological Surveying.

1 Gr., 1 Se., 1 Ju., 1 Fr., 2 uC. Total 6.

- 20c. Associate Professor WOODWORTH. — Research in Structural Geology.

1 Gr. Total 1.

ECONOMIC GEOLOGY

For Undergraduates and Graduates: —

10. Professors GRATON and H. L. SMYTH. — Ore-Deposits. Origin and Occurrence.

1 Se., 1 Ju., 1 E. Total 3.

PALAEONTOLOGY

Primarily for Undergraduates: —

1. Associate Professor RAYMOND. — Palaeontology (introductory course).

III. 2 Ju., 1 So., 1 uC. Total 4.

For Undergraduates and Graduates: —

2. Associate Professor RAYMOND. — Stratigraphic Palaeontology.

III. 1 So., 1 ocC. Total 2.

Primarily for Graduates: —

20. Associate Professor RAYMOND. — Palaeontological Research.

1 Gr., 1 Ju., 1 So. Total 3.

GEOGRAPHY

Primarily for Undergraduates: —

- A. Professor ATWOOD. — Map-Reading. I. 6 Civ., 121 Mil. Total 127.

1. Professor ATWOOD, assisted by Messrs. JAMES and SHEPARD. — Physiography (introductory course).

II, III. 2 Se., 18 Ju., 34 So., 29 Fr., 10 uC., 1 Sp. Total 94.

For Undergraduates and Graduates: —

7. Professor ATWOOD. — Geography of Europe.

II, III. 1 Gr., 7 Ju., 4 So. Total 12.

- 20a. Professor ATWOOD. — Special Problems in Regional Geography.

2 Gr. Total 2.

METEOROLOGY, CLIMATOLOGY, AND AEROGRAPHY

Primarily for Undergraduates: —

1. Professor WARD and Mr. VAUGHAN. — Elementary Meteorology. The Weather and Weather Forecasting. I. 9 Civ., 36 Mil. Total 45.
III. 4 Se., 11 Ju., 13 So., 5 Fr., 4 uC., 2 ocC. Total 39.

For Undergraduates and Graduates: —

3. Professor WARD. — Climatology of North America.
II, III. 1 Se., 2 Ju., 2 So., 1 ocC. Total 6.
6. Professor McADIE. — Instrumental Meteorology.
II, III. 1 Ju., 3 So. Total 4.

Primarily for Graduates: —

20. Professor WARD. — Climatology (research course). 1 Ju. Total 1.
- 20a. Professor McADIE. — Aerography (research course). 1 So. Total 1.

MINERALOGY AND PETROGRAPHY

Primarily for Undergraduates: —

- A. Professor PALACHE. — Blowpipe Analysis and the Determination of Minerals.
II. 1 Se., 5 Ju., 6 So., 3 Fr., 2 uC., 1 ocC., 2 E., 1 Sp. Total 21.
- B. Professor PALACHE. — Descriptive Mineralogy.
II. 6 Se., 7 Ju., 7 So., 2 Fr., 2 uC., 1 Sp., 1 E. Total 26.
- C. Professor PALACHE. — Crystallography.
III. 1 Gr., 4 Se., 3 So., 1 Fr. Total 9.

For Undergraduates and Graduates: —

8. Professor WOLFF. — Optical Crystallography. III. 1 ocC. Total 1.
12. Professor WOLFF. — Advanced Petrography. III. 1 Gr. Total 1.

Course of Research

20. Professors WOLFF and PALACHE. — Research in Mineralogy, Crystallography or Petrography. 2 Gr. Total 2.

GROUP III

HISTORY

Primarily for Undergraduates: —

1. Dr. NEWHALL, assisted by Messrs. BRAND and PACKARD, with lectures by Professor MERRIMAN. — European History from the Fall of the Roman Empire to the French Revolution.
II, III. 35 So., 92 Fr., 35 uC., 1 ocC., 1 Sp. Total 164.

I. ANCIENT HISTORY

For Undergraduates and Graduates: —

4. Professor FERGUSON. — History of Greece to the Roman Conquest.
2 Gr., 1 Se., 4 Ju., 3 So., 1 uC., 1 ocC. Total 12.
37. Professor FERGUSON. — Hellenistic Culture: its Character and Spread.
III. 7 Gr., 2 Se., 13 Ju., 7 So., 4 Fr., 2 uC., 3 ocC., 1 Sp., 1 Di. Total 40.

Primarily for Graduates: —

35. Professor FERGUSON.—Roman Constitutional History.

II. 3 Gr. Total 3.

Course of Research

- 20i. Professor FERGUSON. — Topics in Greek and Roman History.

2 Gr. Total 2.

II. MEDIAEVAL HISTORY

For Undergraduates and Graduates: —

9. Professor McILWAIN. — Constitutional History of England to the Sixteenth Century.

4 Gr., 1 Ju. Total 5.

Primarily for Graduates: —

- 125 hf. Professors HASKINS and FERGUSON. — Historical Bibliography and Criticism.

4 Gr. Total 4.

26. Professor G. F. MOORE. — History of Christian Thought considered in its relation to the prevailing philosophy of each period, from the earliest time to the Eighteenth Century.

1 Se., 4 Di., 1 And. Total 6.

Course of Research

- 20c. Professor HASKINS. — Mediaeval Institutions.

1 Gr. Total 1.

III. MODERN HISTORY

Primarily for Undergraduates: —

- 30a. Professor FAY (Smith College). — Continental Europe since 1815.

II. 17 Se., 45 Ju., 36 So., 6 Fr., 10 uC., 10 ocC. Total 124.

- 30b. Professor FAY (Smith College). — The Expansion of Europe since 1815.

I. 12 Civ., 17 Mil. Total 29.

For Undergraduates and Graduates: —

2. Professor MERRIMAN. — History of France and England in the first three centuries of Modern Times (1483–1783).

III. 1 Gr., 15 Se., 41 Ju., 41 So., 8 Fr., 6 uC., 5 ocC. Total 117.

12. Mr. LASKI. — The History of England from 1688 to the Present Time.

I. 30 Civ., 8 Mil. Total 38.

II, III. 5 Gr., 15 Se., 28 Ju., 25 So., 3 Fr., 6 uC., 4 ocC., 2 Sp. Total 88.

28. Professor FAY (Smith College). — History of Modern Germany.

I. 6 Civ., 2 Mil. Total 8.

- 28b. Professor FAY (Smith College). — History of Modern Germany.

II, III. 4 Gr., 9 Se., 8 Ju., 4 So., 1 uC., 4 ocC. Total 30.

19. Professor FERGUSON. The Eastern Question.

I. 7 Civ., 11 Mil. Total 18.

Primarily for Graduates: —

- 24b. Professor EDWARD C. MOORE. — The Expansion of Christendom and the Naturalization of Christianity in the Orient, more particularly during the Nineteenth Century.

I. 3 Civ. Total 3.

- 20d. Professor FAY (Smith College). — History of Continental Europe and of Asia in the Eighteenth and Nineteenth centuries.

1 Gr. Total 1.

- 20c. Mr. LASKI. — Topics in the Recent History of Political Ideas.
4 Gr., 3 Se. Total 7.

IV. AMERICAN HISTORY

Primarily for Undergraduates: —

32. Professor CHANNING, assisted by Mr. MERK. — American History from 1760 to the Present Time. I. 24 Civ., 53 Mil. Total 78.
II, III. 2 Gr., 22 Se., 57 Ju., 48 So., 4 Fr., 17 uC., 7 ocC., 1 Sp., 1 E.
Total 159.

For Undergraduates and Graduates: —

- 10a. Mr. PHILIP CHASE. — American History to 1730.
II, III. 3 Gr., 2 Se., 10 Ju., 7 So. Total 22.
17. Professor TURNER. — The History of the West. I. 5 Civ., 2 Mil. Total 7.
17b. Professor TURNER. — The History of the West, 1850–1917.
II, III. 2 Gr., 8 Se., 9 Ju., 4 So., 3 ocC. Total 26.
56. Mr. ARRAGON. — The History of Latin America.
III. 7 Gr., 9 Se., 25 Ju., 15 So., 9 Fr., 5 uC., 10 ocC., 1 Sp. Total 81.

Primarily for Graduates: —

23. Professor CHANNING. — Selected Topics in the Historical Development of American Institutions: Political and Social History since 1815. 5 Gr. Total 5.
44. Professor TURNER. — Selected Topics in American History, 1850–1865.
II, III. 3 Gr. Total 3.
146 hf. Mr. W. C. FORD. — Manuscript Materials of American History. 2 Gr. Total 2.

Course of Research

- 20k. Professor TURNER. — American History. 1 Gr. Total 1.

V. ECONOMIC HISTORY

Economics 2a, 2b, 20. (See Economics, pp. 51, 52.)

VI. CHURCH HISTORY

History 24b and 26 are courses in Church History. In addition to these, the following courses in Andover Theological Seminary (offered Primarily to Graduates) were open to students in Harvard University: —

- A1. Professor PLATNER. — History of the Church in Outline. 1 Gr., 9 And., 2 Di. Total 12.
A3. Professor PLATNER. — Christian Institutions, historically and comparatively considered. 1 Gr., 5 Di., 1 And. Total 7.

VII. HISTORY OF RELIGIONS

Primarily for Graduates: —

2. Professor G. F. MOORE. — Buddhism and Christianity; a Comparative Study. I. 2 Gr., 3 And., 4 Di., 1 N.T.I. Total 10.

9. Professor LAKE. — Beginnings of Christianity.
II, III. 2 Gr., 11 Di., 10 And., 1 E.T.S. Total 24.
10. Professor G. F. MOORE. — The Religion of Educated Men in the First Centuries of the Christian Era. I. 1 Gr., 1 Ju., 2 And., 4 Di. Total 8.

Course of Research

20. Professor G. F. MOORE directed the reading and investigations of competent students. 1 Gr., 3 Di. Total 4.

GOVERNMENT

I. MODERN GOVERNMENT

Primarily for Undergraduates: —

1. Professor MUNRO, assisted by Messrs. TROTTER, STANLEY, MOORE, MCNAIR, and COGGESHALL. — Governments and the Reconstruction of Governments in European Countries.
II. 1 Se., 12 Ju., 123 So., 242 Fr., 110 uC., 2 ocC., 1 Sp., 6 E.
Total 497.
- 1a. Professor MUNRO assisted by Messrs. TROTTER, STANLEY, MOORE, MCNAIR, COCHRAN, and COGGESHALL. — American Government.
III. 1 Gr., 3 Se., 24 Ju., 158 So., 257 Fr., 139 uC., 1 ocC., 2 Sp., 6 E.
Total 591.

For Undergraduates and Graduates: —

9. Professor A. B. HART. — Government of American States.
6 Civ. Total 6.
17. Professor MUNRO. — Municipal Government.
II, III. 5 Gr., 10 Se., 29 Ju., 29 So., 7 uC., 10 ocC. Total 90.
10. Professor McILWAIN. — Government of England.
II, III. 4 Gr., 2 Se., 8 Ju., 5 So., 1 uC. Total 20.
31. Professor WHIPPLE. — Municipal Administration.
II, III. 1 Gr., 4 Se., 6 Ju., 2 So., 2 S.P.H. Total 15.

Primarily for Graduates: —

- †12. Professor A. B. HART. — American Political System, National, State, and Municipal.
I. 7 Civ., 3 Mil. Total 10.
II, III. 3 Gr., 2 Se., 2 Ju., 5 R. Total 12.

Courses of Research

- 20a. Professor MUNRO. — Selected Topics in Municipal Government.
II, III. 1 Gr. Total 1.
- 20e. Professor A. B. HART. — American Institutions, — National, State, Municipal, and Diplomatic.
II, III. 3 Gr., 2 Se. Total 5.

II. LAW AND POLITICAL THEORY

For Undergraduates and Graduates: —

- 6a. Mr. LASKI. — History of Political Theories. I. 10 Civ. Total 10.
- 6b. Mr. LASKI. — Political Theories of Modern Times.
II, III. 6 Gr., 1 G.B., 18 Se., 36 Ju., 28 So., 2 Fr., 5 uC., 8 ocC., 1 Sp., 1 N.T.I. Total 106.

11. Professor A. B. HART. — Federal Government and World Systems: History, Theory, and Workings.
 II. 5 Gr., 1 G.B., 11 Se., 14 Ju., 9 So., 1 Fr., 2 uC., 5 ocC. Total 48.
19. Dr. P. Q. WRIGHT. — American Constitutional Law.
 I. 3 Civ., 3 Mil. Total 6.
 II, III. 3 Se., 3 Ju., 3 So., 1 Sp. Total 10.

III. INTERNATIONAL LAW AND DIPLOMACY

For Undergraduates and Graduates: —

4. Professor G. G. WILSON, assisted by Dr. P. Q. WRIGHT. — Elements of International Law.
 I. 13 Civ., 35 Mil. Total 48.
 II, III. 9 Se., 12 Ju., 3 So., 3 uC., 1 Sp. Total 28.

Primarily for Graduates: —

15. Professor G. G. WILSON. — International Law as administered by the Courts and as observed in international negotiations.
 I. 5 Civ., 1 Mil. Total 6.
 II, III. 6 Gr., 1 Se., 1 Ju. Total 8.
16. Professor A. B. HART. — Diplomacy of the United States in the World War. III. 13 Gr., 17 Se., 50 Ju., 24 So., 5 uC., 15 ocC. Total 124.

Course of Research

- 20c. Professor G. G. WILSON. — International Law. 4 Gr. Total 4.

ECONOMICS

Primarily for Undergraduates: —

- A. Drs. BURBANK, MONROE, E. E. LINCOLN, and TUCKER, Messrs. WILLIAMS, LAPORTE, and FEIS. — Principles of Economics.
 I. 43 Civ., 94 Mil. Total 137.
 II, III. 1 Gr., 8 Se., 64 Ju., 179 So., 20 Fr., 44 uC., 3 ocC. Total 319.

For Undergraduates and Graduates: —

- 1a. Dr. TOSDAL. — Accounting. I. 15 Civ., 60 Mil. Total 75.
- 1b. Mr. WILLIAMS. — Statistics.
 II, III. 1 Gr., 6 Se., 19 Ju., 18 So., 1 Fr., 10 uC., 2 ocC. Total 57.
- 2a. Dr. E. E. LINCOLN. — European Industry and Commerce in the Nineteenth Century. I. 12 Civ., 6 Mil. Total 18.
- 2b. Dr. E. E. LINCOLN. — Economic History of the United States.
 II, III. 1 Gr., 2 G.B., 8 Se., 42 Ju., 18 So., 1 Fr., 7 uC., 6 ocC. Total 85.
3. Dr. A. E. MONROE. — Money, Banking, and Commercial Crises.
 I. 4 Civ., 6 Mil. Total 10.
 II, III. 3 Se., 10 Ju., 3 uC., 1 ocC. Total 17.
- 4a. Professor RIPLEY. — Economics of Transportation.
 I. 6 Civ., 9 Mil. Total 15.
- 4b. Professor RIPLEY, assisted by Dr. DEWING. — Economics of Corporations.
 II, III. 3 Gr., 1 G.B., 21 Se., 55 Ju., 3 So., 13 uC., 10 ocC., 1 Sp. Total 107.

- 5a. Professor BULLOCK. — Public Finance, exclusive of Taxation.
I. 5 Civ. Total 5.
- 5b. Dr. BURBANK. — The Principles and Methods of Taxation.
II, III. 12 Se., 16 Ju., 4 uC., 4 ocC. Total 36.
- 7b. Professor CARVER. — Programmes of Social Reconstruction including Socialism in its various forms. Communism, Anarchism, and Single Tax.
II, III. 6 Gr., 14 Se., 27 Ju., 6 So., 9 uC., 11 ocC., 2 N.T.I. Total 75.
8. Professor CARVER. — Principles of Sociology.
I. 16 Civ., 1 Mil. Total 17.
II, III. 10 Gr., 8 Ju., 2 So., 4 uC., 4 ocC., 2 Sp., 1 And., 1 N.T.I.
Total 32.
- 9a. Professor CARVER. — Economics of Agriculture. I. 1 Civ. Total 1.

Primarily for Graduates: —

I

ECONOMIC THEORY AND METHOD

- †11. Professors CARVER and BULLOCK. — Economic Theory.
I. 6 Civ., 1 Mil. Total 7.
II, III. 9 Gr., 1 Se., 1 Sp. Total 11.
- †13. Dr. PERSONS. — Statistics: Theory, Method, and Practice.
4 Gr., 1 Ju., 3 R. Total 8.
- †14. Professor BULLOCK. — History and Literature of Economics to the year 1848.
8 Gr., 1 Sp. Total 9.

II

ECONOMIC HISTORY

III

APPLIED ECONOMICS

- †34. Professor RIPLEY. — Problems of Labor.
11 Gr., 2 Se., 1 Ju., 1 ocC., 2 R. Total 17.

IV

SOCIAL SCIENCES

- Anthropology 12. (See Anthropology, p. 54.)
- Social Ethics 6 $\frac{1}{2}$. (See Social Ethics, p. 56.) Courses in Social Ethics belong to Group IV.

V

COURSE OF RESEARCH IN ECONOMICS

- †20. Professors CARVER, RIPLEY, BULLOCK, DAY, SPRAGUE, and COLE. — Economic Research.
12 Gr., 1 Se. Total 13.

The Seminary in Economics

Meetings were held by instructors and advanced students for the presentation of the results of investigation.

EDUCATION

For Undergraduates and Graduates: —

- B. Professor HANUS. — School Administration in State and City — Contemporary Tendencies and Problems.
 III. 1 Gr., 2 Se., 5 Ju., 3 So., 7 uC., 2 ocC. Total 20.
7. Professor DEARBORN. — Educational Psychology and Mental Hygiene.
 I. 8 Civ., 6 Mil. Total 14.
 II. 4 Gr., 6 Se., 11 Ju., 2 So., 2 Fr., 4 uC., 2 ocC. Total 31.
14. Asst. Professor G. E. JOHNSON. — Child Development.
 III. 2 Gr., 9 Ju., 3 So., 1 Fr., 4 uC., 5 ocC., 1 Di. Total 25.

Primarily for Graduates: —

- †3a. Professor HANUS. — Organization and Management of State and City Schools and School Systems.
 3 Gr., 2 R. Total 5.
- 3b. Professor HOLMES. — Principles of Secondary Education. Visits to schools.
 5 Gr., 6 Se., 1 uC., 1 ocC. Total 13.
- †3c. Professor HOLMES. — Elementary Education. Programmes of study, methods, school and class management. Visits to schools.
 5 Gr., 1 Ju., 1 So., 2 R. Total 9.
9. Professor HOLMES. — Teaching. Teaching under supervision in the schools of Newton, Brookline, Arlington, Medford, Somerville, Belmont, Watertown, Lexington, and Cambridge.
 II, III. 1 Gr., 6 Se. Total 7.
4. Professor DEARBORN. — Educational Measurement. Methods and results of statistical and experimental studies of school problems.
 III. 3 Gr., 1 Se., 1 Ju. Total 5.
- †12a. Asst. Professor G. E. JOHNSON and Mr. JOSEPH LEE. — Play in Education. General course for Teachers, Principals, Superintendents of Schools, Social Workers, and others.
 III. 1 Se., 2 Ju., 1 uC., 3 ocC. Total 7.

Seminary Courses

- †20. Special Research in Education. — Under the direction of an instructor of the Division.
 10 Gr., 2 R. Total 12.
- †20a. Professor HANUS. — Problems in Educational Administration.
 10 Gr., 1 Sp., 2 R. Total 13.
- †20c. Professor DEARBORN. — Problems in Mental and Physical Development. — Studies in Child Development; with Special Reference to Cases of Deficient, Retarded, and Psychopathic Children in School.
 8 Gr., 1 Ju., 3 R. Total 12.
- †20d. Professor DEARBORN. — Research in Educational Psychology.
 1 Se. Total 1.

ANTHROPOLOGY

Primarily for Undergraduates: —

1. Asst. Professor TOZZER and Dr. HOOTON. — General Anthropology.
4 Se., 16 Ju., 19 So., 9 Fr., 9 uC., 6 ocC., 1 Sp. Total 64.

For Undergraduates and Graduates: —

2. Dr. HOOTON. — Physical Anthropology. 1 Gr., 3 Ju. Total 4.
4. Dr. HOOTON. — European Ethnography and Archaeology.
III. 1 Gr., 2 Se., 5 Ju., 2 uC., 1 ocC. Total 11.
14. Dr. HOOTON. — Ethnography of Africa. I. 3 Civ. Total 3.
12. Asst. Professor TOZZER and Dr. HOOTON. — Primitive Sociology, a History of Institutions. II. 2 Gr., 2 Se., 3 Ju., 1 Sp. Total 8.
9. Asst. Professor TOZZER. — Archaeology and Hieroglyphic Systems of Central America. III. 1 ocC., 1 Sp., Total 2.

*Primarily for Graduates: —**Courses of Research*

- 120a. Dr. HOOTON. — American Archaeology and Ethnology. 1 Sp. Total 1.
- 20b. Dr. HOOTON. — Advanced Physical Anthropology. 1 Se. Total 1.
- 20f. Dr. HOOTON. — African Ethnology and Archaeology. 1 Gr. Total 1.

GROUP IV

PHILOSOPHY AND PSYCHOLOGY

PHILOSOPHY

Primarily for Undergraduates: —

- A. Professor WOODS. — History of Ancient Philosophy.
I. 25 Civ., 3 Mil. Total 28.
- AA. Professor WOODS. — History of Mediaeval and Early Modern Philosophy. II. 45 Ju., 54 So., 69 Fr., 47 uC., 2 ocC., 1 Sp. Total 218.
- B. Professor WOODS. — History of Later Modern Philosophy.
III. 38 Ju., 60 So., 70 Fr., 2 Sp., 46 uC., 3 ocC. Total 219.
- C. Dr. SHEFFER. — Elementary Logic.
I, II. 6 Se., 15 Ju., 12 So., 14 Fr., 23 uC., 5 ocC. Total 75.
1. Asst. Professor HOERNLÉ. — General Problems of Philosophy.
III. 16 Se., 35 Ju., 33 So., 8 Fr., 26 uC., 3 ocC., 2 Sp., 1 E.T.S.
Total 124.

For Undergraduates and Graduates: —

3. Dr. SHEFFER. — Philosophy of Nature. Introduction to the Logic of Science and Metaphysics of Nature.
III. 1 Gr., 1 Ju., 1 So., 2 Fr., 3 uC., 1 ocC. Total 9.
4. Professor URBAN (Trinity College, Hartford, Conn.) — Ethics — General Course. III. 1 Gr., 1 Se., 11 Ju., 2 So., 1 Fr., 4 uC., 3 ocC. Total 23.
- 6a. Professors EDWARD C. MOORE and FENN. — Philosophy of Religion. The nature and evolution of the religious consciousness.
I. 2 Gr., 1 Se., 1 ocC., 2 And., 2 Di., 2 B.U. Total 10.

7. Professor FENN. — Theism. I. 3 And., 9 Di., 1 N.T.I. Total 13.
8. Dr. SHEFFER. — Advanced Logic. — The elements of mathematical logic, with some applications to problems of philosophy. I. 4 Civ. Total 4.
- 8a. Dr. SHEFFER. — Advanced Logic (second course). Applications of mathematical logic to Science and Philosophy. II. 3 Gr. Total 3.
9. Asst. Professor HOERNLÉ. — Metaphysics. The problem of the external world in recent philosophical theory.
II. 4 Gr., 2 Se., 3 Ju., 1 So., 1 uC., 1 ocC. Total 12.
11. Professor WOODS. — Philosophical Systems of India, with special reference to Vedanta, Sankhya and Yoga. I. 7 Civ. Total 7.
12. Professor WOODS. — Greek Philosophy, with especial reference to Plato. 7 Gr., 3 Se., 1 Ju., 3 So., 1 ocC. Total 15.
- 14b. Dr. SHEFFER. — English Philosophy from Bacon to Hume.
III. 3 Gr., 1 Se., 5 Ju., 1 uC., 1 ocC. Total 11.
15. Dr. MASON. — The Kantian Philosophy. I. 7 Civ. Total 7.
16. Professor URBAN (Trinity College, Hartford, Conn.). — Post-Kantian Idealism. III. 3 Gr., 1 Se., 1 uC., 1 ocC. Total 6.
18. Asst. Professor HOERNLÉ. — Present Philosophical Tendencies. A brief survey of the philosophical background of the war and its aims.
I. 7 Civ. Total 7.

Primarily for Graduates: —

- ‡22. Asst. Professor HOERNLÉ. — Logical Theory. A Comparative Study of selected topics from Modern Logic and Theory of Knowledge, with special attention to Bradley and Bosanquet, and references to Russell, Husserl, and Meinong. II, III. 10 Gr., 1 Se. Total 11.
- ‡24a. Professor E. C. MOORE. — History of Christian Thought since 1632. I. 2 Gr., 1 And., 4 Di., 4 R. Total 11.

Seminary Courses

20. Special Research in Philosophy, under the direction of an instructor of the Department, and not provided for in a regular seminary. 7 Gr., 1 And. Total 8.
- ‡20a. Asst. Professor HOERNLÉ. — Seminary in Metaphysics. Mechanism, Vitalism and Teleology. I. 6 Civ., 3 Mil. Total 9.
- 20d. Professor URBAN (Trinity College, Hartford, Conn.). — Seminary in Ethics. The Theory of Value. III. 1 Gr., 1 uC., 2 Di. Total 4.

THE CLASSICS

Greek 8 and Latin 8. (See the Classics, p. 30.)

PSYCHOLOGY

Primarily for Undergraduates: —

- A. Asst. Professor LANGFELD. — General Introduction to Psychology. I. 27 Civ., 23 Mil. Total 50.
- AA. Asst. Professor LANGFELD. — General Introduction to Psychology (second course). II. 1 Gr., 1 Se., 42 Ju., 79 So., 69 Fr., 46 uC., 1 ocC., 1 Sp. Total 240.
- B. Asst. Professor LANGFELD. — Psychology and its Applications. III. 32 Ju., 48 So., 49 Fr., 38 uC., 2 ocC. Total 169.

For Undergraduates and Graduates: —

5. Dr. TROLAND. — Advanced Psychology.
II, III. 4 Gr., 5 Se., 3 Ju., 7 So., 1 Di. Total 20.
Education 7^½f. (See Education, p. 53.)
10. Dr. GIVLER. — Experimental Human Psychology (introductory laboratory course).
I. 6 Civ. Total 6.
- 10a. Asst. Professor LANGFELD and Dr. GIVLER. — Experimental Human Psychology (advanced laboratory course).
II, III. 1 Se., 3 Ju., 1 ocC. Total 5.
12. Dr. TROLAND. — The Fundamentals of Psychophysiology.
I. 5 Civ., 2 Mil. Total 7.
13. Professor EVANS. — The Psychology of Religion. I. 3 Civ. Total 3.

Primarily for Graduates: —

23. Professor SOUTHARD. — Psychopathology.
II. 5 Gr., 2 Se., 2 Ju., 1 ocC. Total 10.
20. Special Research in Psychology, under the direction of an instructor of the Department.
1 Gr. Total 1.
- 20f. Asst. Professor LANGFELD. — Seminary in Psychology. — Fundamental Problems.
12 Gr., 1 Se., 2 Ju., 2 ocC. Total 17.
- 20g. Professor SOUTHARD. — Seminary in Psychopathology.
III. 2 Gr., 2 Se., 1 Ju., 1 Sp. Total 6.
- 20a. Asst. Professor LANGFELD and Dr. GIVLER. — Psychological Laboratory. Experimental investigations in human psychology, including problems of applied psychology.
6 Gr. Total 6.
- Education 20c, 20d. (See Education, p. 53.)

SOCIAL ETHICS

For Undergraduates and Graduates: —

1. Asst. Professor FOERSTER, assisted by Mr. SNIDER. — Social Problems and Social Policy. Principles and Methods of Social Amelioration.
III. 11 Se., 27 Ju., 47 So., 8 Fr., 24 uC., 10 ocC., 1 Sp., 1 N.T.I.
Total 129.
6. Asst. Professor FOERSTER. — Unemployment and Related Problems of the Working Classes, with Special Consideration of Social Insurance.
III. 2 Gr., 7 Se., 11 Ju., 9 So., 10 uC., 10 ocC. Total 49.

*Primarily for Graduates: —**Course of Research*

20. Asst. Professor FOERSTER. Special Researches. 1 Gr. Total 1.

MATHEMATICS

Primarily for Undergraduates: —

- I.** Associate Professor BOUTON and Mr. N. H. BLACK, Professor (*Emeritus*) BYERLY, Messrs. T. L. BRAMHALL, W. F. DOWNEY, G. W. EVANS, J. P. FARNSWORTH, A. L. FAXON, H. D. GAYLORD, J. A. GOLDTHWAITE, J. S. HOFFMAN, C. JENNEY, Associate Professor KILLAM, Messrs. F. B. KNAPP, L. A. MCCOY, C. D. MESERVE, Dr. A. L. MILLER, Mr. J. L. POWERS, Dr. H. M. SHEFFER, Mr. V. L. VOSBURGH, Professor WIENER, Mr. J. W. WOOD. — Trigonometry. *I.* 172 Civ., 518 Mil. Total 690.
Messrs. KNAPP and REXFORD SAMPLE TUCKER.
II. 1 Gr., 6 Se., 19 Ju., 57 So., 86 Fr., 30 uC., 1 Sp., 3 E. Total 203.
Messrs. KNAPP and REXFORD SAMPLE TUCKER.
III. 5 Se., 15 Ju., 22 So., 20 Fr., 9 uC., 2 ocC., 1 Sp. Total 74.
- S.** Asst. Professor BIRKHOFF, Professor W. R. RANSOM (Tufts College), Messrs. HOBBS, GAYLORD, Dr. UNDERHILL, and Mr. RICE. — Trigonometry (brief course). *I.* 18 Civ., 87 Mil. Total 106.
- II.** Professor OSGOOD, Dr. GREEN, and Mr. KNAPP. — Analytic Geometry. *I.* 37 Civ., 76 Mil. Total 113.
Professor OSGOOD and Asst. Professor BIRKHOFF, Dr. FORD, Messrs. KNAPP and HOFFMAN.
II. 17 Ju., 54 So., 138 Fr., 28 uC., 1 ocC., 15 E. Total 253.
Professor OSGOOD and Dr. GRAUSTEIN.
III. 1 Gr., 6 Ju., 30 So., 49 Fr., 18 uC., 1 ocC., 2 Sp., 1 E., 1 Di. Total 109.
- III.** Dr. A. L. MILLER. — Differential and Integral Calculus. *I.* 4 Civ., 6 Mil. Total 10.
Professor OSGOOD and Dr. FORD.
II. 1 Se., 17 Ju., 32 So., 35 Fr., 4 uC., 11 E. Total 100.
Professor OSGOOD and Dr. GRAUSTEIN.
III. 12 Ju., 42 So., 99 Fr., 17 uC., 2 ocC., 1 Sp., 15 E. Total 188.
- IV.** Professor OSGOOD and Dr. FORD. — Differential and Integral Calculus. *III.* 1 Se., 10 Ju., 27 So., 31 Fr., 5 uC., 6 E. Total 80.
- V.** Associate Professor BOUTON. — Differential and Integral Calculus (advanced course). *II, III.* 1 Se., 10 Ju., 1 So., 1 uC., 1 ocC. Total 14.
- † $\begin{cases} Q. & \text{Mr. KNAPP. — Trigonometry.} & I. & 4 \text{ Mil. Total } 4. \\ R. & \text{Mr. BLACK. — Trigonometry.} & I. & 1 \text{ Civ., } 5 \text{ Mil. Total } 6. \\ L. & \text{Mr. KNAPP. — Trigonometry.} & I. & 30 \text{ Mil. Total } 30. \\ U. & \text{Mr. KNAPP. — Trigonometry.} & I. & 12 \text{ Civ. Total } 12. \end{cases}$
- D.** Mr. KNAPP. — Algebra. *III.* 4 Se., 18 Ju., 23 So., 32 Fr., 2 uC., 2 ocC., 1 Sp. Total 82.
- E.** Mr. HOBBS. — Solid Geometry. *I.* 10 Civ., 60 Mil. Total 70.
Dr. FORD and Mr. TUCKER.
II. 3 Se., 3 Ju., 11 So., 17 Fr., 7 uC., 2 ocC. Total 43.

† These courses were held for a few weeks only.

2. Asst. Professor BIRKHOFF, Drs. GREEN and GRAUSTEIN. — Differential and Integral Calculus; Analytic Geometry.

I. 21 Civ., 54 Mil. Total 75.

II, III. 5 Se., 14 Ju., 20 So., 4 uC., 6 E. Total 49.

4. Professor OSGOOD. — The Elements of Mechanics.

I. 2 Civ. 1 Mil. Total 3.

For Undergraduates and Graduates: —

3. Associate Professor BOUTON. — Introduction to Modern Geometry.

II, III. 5 Gr., 4 Se., 3 Ju., 6 So., 2 Fr., 1 uC., 2 ocC. Total 23.

5. Associate Professor BOUTON. — Differential and Integral Calculus (advanced course. Part I).

I. 6 Civ., 1 Mil. Total 7.

- 5b. Professor OSGOOD. — Differential and Integral Calculus (advanced course. Part II).

II, III. 3 Gr., 1 Se., 2 Ju., 2 So., 1 Fr., 1 uC., 1 ocC. Total 11.

Primarily for Graduates: —

- †13. Professor OSGOOD. — The Theory of Functions (introductory course).

I. 5 Civ., 1 Mil. Total 6.

II, III. 4 Gr., 2 Se., 1 uC., 3 R., 1 Instr. Total 11.

- †14a. Dr. GRAUSTEIN. — Algebra. The properties of polynomials; invariants.

III. 5 Gr., 2 Ju., 1 So., 1 R. Total 9.

- †22b. Dr. GREEN. — Projective Differential Geometry. *I. 2 Civ. Total 2.*

- †10a. Asst. Professor BIRKHOFF. — Introduction to the Theory of Potential Functions and Laplace's Equation. *I. 4 Civ., 2 Mil. Total 6.*

- †10b. Asst. Professor BIRKHOFF. — The Analytical Theory of Heat and Problems in Elastic Vibrations. Fourier's Series; Legendre's Polynomials. Bessel's Functions. *II, III. 9 Gr., 2 Se., 1 Ju., 1 R. Total 13.*

- †24a. Mr. J. L. WALSH. — The Theory of Numbers.

III. 5 Gr., 2 Ju., 2 So. Total 9.

- †25. Associate Professor BOUTON. — Geometrical Transformations with special reference to the work of Sophus Lie. *I. 4 Civ. Total 4.*

II, III. 4 Gr., 1 R. Total 5.

Courses of Research

- 20a. Professor OSGOOD. — Topics in the Theory of Functions.

1 Gr. Total 1.

- 20c. Associate Professor BOUTON. — Topics in the Theory of Point-Transformations.

3 Gr. Total 3.

- 20e. Asst. Professor BIRKHOFF. — Topics in the Theory of Differential Equations.

1 Gr. Total 1.

OUT OF GROUP

MILITARY LAW AND PRACTICE

Professor SCOTT.

I. 3 Civ., 387 Mil. Total 390.

ORDNANCE

Lieut.-Colonel H. G. STANTON. — Modern Ordnance.

I. 2 Civ., 97 Mil. Total 99.

Mr. P. J. O'BRIEN. — Ordnance and Seamanship.

I. 115 Mil. Total 115.

BUSINESS ADMINISTRATION

Business 1. — Professor SCHAUB and others. *I. 6 Civ., 63 Mil. Total 69.*

Business Management. — Mr. FARQUHAR. *I. 55 Mil. Total 55.*

COURSES IN MEDICAL SCIENCES

BIOCHEMISTRY

20. Professor FOLIN and Asst. Professor FISKE. — Research in Biological Chemistry. *2 Gr. Total 2.*

BACTERIOLOGY

1. Professor ERNST. — Elementary Bacteriology. *1 Gr. Total 1.*
 20. Professor ERNST. — Research. *1 Gr. Total 1.*

Before the College opened, the President called a special meeting of the Faculty, "to discuss the rearrangement of courses to be offered under the Faculty of Arts and Sciences for the coming academic year, necessitated by the request from the War Department that a curriculum be established for the Students' Army Training Corps." Chairmen of Departments were appointed as a committee to meet the request from the Government; and Professor Clifford H. Moore of the Department of Classics was designated as Chairman of this committee. Members of the Faculty not already in service for the war were more than willing to give what help they could to the Students' Army Training Corps. Full professors taught in our most elementary courses, sometimes in other departments than their own. They were the better able to do this because the war had absorbed many if not most of their older pupils; and the spirit in which they did it was refreshing.

At the special meeting the Faculty voted:

That, besides the students admitted to Harvard College in the usual way, the Committee on Admission admit graduates of standard four-year high schools, or those who have had equivalent training, as students in Harvard University to enter the Students' Army Training Corps.

On September 23 it voted that admission examinations should be held in December and March to provide for candidates, especially those over eighteen years of age, who were almost ready for admission in September, 1918.

In every way the Faculty tried to adapt its work to the exigencies of the war. The elementary courses, History 1 and Government 1, were suspended for the year to make room for a new course on the "Problems and Issues of the War"; the elementary English regularly prescribed for Freshmen was reduced for those members of the Students' Army Training Corps who did special war work in Chemistry and for some others; to facilitate the educational plans of students going to the war or coming from it, the academic year was divided into three parts instead of two, and each separate third of a course might be counted toward a degree. After the armistice was declared the Students' Army Training Corps was abandoned, with provision for receiving as Freshmen those graduates of high schools who had shown their capacity for college work.

Early in December the Faculty voted:

1. That the Committee on Admission be empowered to make retro-active the vote of the Faculty of April 10, 1917:
 - (a) That final candidates for admission to Harvard College who expect to enter military or naval service before the June examinations may present their final records to the Committee on Admission, who will issue certificates of admission in those cases which seem to justify it, such certificates to be valid only within a year after the holders receive their honorable discharge from the service.
 - (b) That final candidates for admission to Harvard College, now in military or naval service, who procure their honorable discharge during the current year may present their final records to the Committee on Admission, who will issue certificates of admission in those cases which seem to justify it, such certificates not to be valid after September, 1919.
2. That students admitted on school certificates to a Harvard unit who are honorably discharged from the service, and whose academic work is of a satisfactory quality, be allowed to continue their college work throughout the current academic year as Unclassified Students so long as their work is of satisfactory grade, and that they be classified next year in accordance with their school and college records on the same principle now applied to men admitted from other colleges — namely, that a good record in their work in Harvard College be accepted as a guarantee that they have done good work in the specific subjects required for matriculation.

3. That the vote of the Faculty establishing extra admission examinations be rescinded so far as the examinations in March are concerned.
4. That men admitted to a Government programme in some other institution of college rank on terms which would have procured their admission to a Harvard unit, may be allowed, at the discretion of the Committee, to register in December as Unclassified Students, and that such men be ultimately classified as provided for in Recommendation 2.

To further the plan for facilitating the return of students from military service, the Administrative Board of the Summer School voted, at the request of the Faculty, to hold two sessions in the summer of 1919, the usual session from July 1 to August 9, and a second session from August 11 to September 13. Thus it became possible for a student to pass, in the summer, the equivalent of two full courses — one whole course, or the equivalent of one, at each session. The Faculty voted also to recommend to the Governing Boards:

That the period of the Summer School of 1919 be counted as a part of the residence of one year required by the University Statutes in the case of candidates for degrees.

In January, following a suggestion of the Board of Overseers, the Faculty voted:

That the degree of A.B. or S.B. for honorable service in the war should be granted to any student who has completed at least three-fourths of the requirements for either of these degrees, and who, owing to military service, has been unable to complete the entire course.

In February, having received from the President and Fellows a message "that the Corporation approves of giving the degrees as suggested, and requests the Faculty to submit to the President and Fellows from time to time the names of students who have fulfilled the conditions described in said vote and desire to take advantage thereof," the Faculty voted:

That the Administrative Board of Harvard College be requested to make a report to the Faculty on the administration of the degree of A.B. and S.B. for honorable service in the war.

Thus was established the so-called war degree. In the spring the Faculty voted:

That, save in exceptional cases, the war degree be conferred only on commissioned and non-commissioned officers and enlisted men.

The records for the meeting of March 18 show another vote of the Faculty bearing on the cases of students who had gone to the war:

The Acting Dean of Harvard College reported that the Administrative Board of Harvard College, after considering the question of giving credit toward the degree of A.B. or S.B. for technical work done by students while in military or naval service, had voted to recommend to the Faculty that in the cases of such men when a Division or a Department certifies that they have done the academic equivalent of a course or courses within the Division or Department, credit for such courses be given provided the Chairman of the Division or Department thinks it practicable, and moved that the recommendation be adopted.

This recommendation was adopted by the Faculty.

In May, following a recommendation of the Board of Overseers, the Faculty approved the requirement of physical training for Freshmen. This requirement, already in force at numerous colleges had not found favor at Harvard, where personal freedom was strongly intrenched. The adoption of it with only slight opposition was probably an effect of the war.

In December a committee was appointed "to investigate the working of the general final examinations for degrees now used in various departments of the University, and to consider the advisability of employing general final examinations on the fields of concentration in all departments of Harvard College." Here was a suggestion that the system of general final examinations now used in the Division of History, Government, and Economics be extended to other Divisions and Departments. In April, after receiving the report of the Committee, the Faculty voted:

That general final examinations be established for all students concentrating in Divisions or under Committees which signify their willingness to try such examinations, and that adequate means be provided to enable such Divisions and Committees to administer these examinations; it being understood that the control of the general final examinations shall rest with the several Divisions and Committees in the same manner as the control of the examinations for honors and distinction now given by them.

That the new general final examinations be first employed for the members of the present Freshman Class.

For a long time pressure has been exerted on the Faculty to permit the award of the Master's degree for work in the Summer School. By distributing the work over the requisite number of summers, teachers in secondary schools who have strength for hard study in vacation may cover all the requirements for the de-

gree of A.M. except the requirement of residence throughout an academic year. It is chiefly from teachers and from persons especially interested in the teachers of public schools that the pressure has come. This pressure the Faculty long resisted for the protection, as it believed, of the Master's degree; but in April, 1919, it voted "that properly qualified candidates for the degree of Master of Arts be permitted to present a program for the degree consisting of summer courses only"; and in May it approved recommendations from the Administrative Board of the Graduate School of Arts and Sciences for the administration of the degree of Master of Arts when obtained for summer work only.

In the autumn the prevalence of influenza caused the suspension, for a short time, of exercises in the larger courses. The year was, for more than one reason, a trying and an exciting year in college and university administration; but with the abatement of influenza, the signing of the armistice, the return of student-soldiers in large numbers and the gradual return of the many teachers who had been honored by appointments for service in the war or at the Peace Conference or in Washington, the life of the University became rapidly normal again; nor has Harvard anything to regret in the response of her sons to the "voice without reply."

L. B. R. BRIGGS, *Dean*.

THE COLLEGE

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present to you a report on Harvard College for the academic year 1918-19.

The number of students in the College at the time the lists were compiled for the Catalogue of 1918-19 was two thousand one hundred eighty-three, divided as follows: —

Seniors	206
Juniors	451
Sophomores	563
Freshmen	544
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Total number of undergraduates	1,764
Out-of-Course Students	109
Unclassified Students	310
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Total	2,183

Compared with the figures at the corresponding time of the preceding year, these show a gain of five hundred two: —

	Gain	Loss
Seniors		9
Juniors	92	
Sophomores	117	
Freshmen		15
Out-of-Course Students	84	
Unclassified Students	233	
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Totals	526	24
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Net gain	502	

During the year the following students died: —

Theodore Myron Arms, '21	October	12, 1918
Allen Hollis, Jr., '21	December	18, 1918
Herbert Alphonse Janzlik, '21	November	30, 1918
William MacMillan Maslen, '20	November	25, 1918
Clarence Francis Mateyka, '21	October	6, 1918
Ralph Kemp Stretch, '22	May	26, 1919
David Little Withington, Jr., '20	October	5, 1918

Two hundred thirty-two candidates (nine in February and two hundred twenty-three in June) received the degree of Bachelor of

Arts. Of these, seventy-four were regularly registered as Seniors; the registration of the others is shown in the following table: —

Registered during first term	9
Registered during second term	3
Registered during third term	3
Registered during first and second terms	6
Registered during first and third terms	1
Registered during second and third terms	51
On leave of absence all the year	7
Registered in Graduate School of Arts and Sciences	1
Registered in the Law School	3
Registered in the Business School	3
Registered in the Medical School	1
Registered in the Junior Class	1
Registered as Out-of-Course Students	56
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	145
To be designated "as of 1920" in the Quinquennial Catalogue	13
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	158

Thirty-three candidates (two in February and thirty-one in June) received the degree of Bachelor of Science. Their registration is indicated in the next table: —

In the Senior Class	11
On leave of absence all the year	1
Registered during second and third terms	11
Registered as Out-of-Course Students	11
	<hr/>
	34

Compared with the table of last year, these last two tables show a decrease of forty in the number of candidates receiving the degree of Bachelor of Arts and an increase of four receiving the degree of Bachelor of Science.

Two hundred eighty-three candidates received the degree of A.B. for Honorable Service in the War. Their distribution by classes is shown in the following table: —

Class of 1916	3
Class of 1917	16
Class of 1918	174
Class of 1919	90
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	283

Included in these figures are forty degrees which were awarded to men who died in the service. Of these men, four were members

of the Class of 1917; nineteen were members of the Class of 1918; and seventeen were members of the Class of 1919.

Thirty-eight candidates received the degree of S.B. for Honorable Service in the War. Their distribution by classes is shown in the following table:—

Class of 1914	1
Class of 1916	1
Class of 1917	1
Class of 1918	26
Class of 1919	9
	—
	38

Included in these figures are three degrees which were awarded to men who died in the service. Of these men, two were members of the Class of 1918; one was a member of the Class of 1919.

The Freshman Class of 1919–20 shows an increase of fifty-six. The number of men in the Class who entered College in 1919–20 is forty more than the corresponding number in 1918–19.

Fifty-one students (or 2.7 % of the undergraduates) won a place in the First Group of Scholars. Of these, eighteen hold honorary scholarships; thirty-three, stipendiary. Last year forty-four students (or 2.8 % of the undergraduates for that year) won a place in the First Group. Of these, eleven received honorary scholarships; thirty-three, scholarships with stipend.

One hundred twenty students (or 6.4 % of the undergraduates) won a place in the Second Group of Scholars. Of these, forty-eight hold honorary scholarships; seventy-two, stipendiary. Last year, ninety-four students (or 5.9 % of the undergraduates) won a place in the Second Group. Of these, fifty-two received honorary scholarships; forty-two, scholarships with stipend.

Assuming that we can safely ignore the fact that the grades for 1918–19 are not in every case from the instructors who graded the men in the year 1917–18, the above figures indicate a slight improvement in the standard of our scholarship, since the number of scholarships, both stipendiary and honorary (John Harvard Scholarships for First Group men and Harvard College Scholarships for Second Group men), varies with the number of men whose scholarship is high enough to receive them.

In the First Group are twenty-six Seniors, eleven Juniors, twelve Sophomores, and two candidates for the degree out-of-course; in the Second Group, forty-two Seniors, thirty-nine Juniors, thirty-four Sophomores, and five candidates for the degree out-of-course;

giving as totals sixty-eight Seniors, fifty Juniors, forty-six Sophomores, and seven candidates for the degree out-of-course.

The members of the Administrative Board for the year 1918-19 were Professors Wilson, C. H. Moore, Ward, Baxter, Chase, Lee, Edgell, the Dean, and the Acting Dean. Dean Yeomans was suddenly called to France in February, and Professor C. N. Greenough was appointed Acting Dean during the Dean's absence. The Assistant Deans were Lawrence Shaw Mayo, who served throughout the year; John Gallishaw, who served from December 15, 1918; and Kenneth Ballard Murdock, who was appointed January 15, 1919.

In the course of the year, the Board closed the probation of twelve students; three students who, at some previous time, after having had their connection with the College severed, had been readmitted on condition that if their records became unsatisfactory they should withdraw upon request, failed to maintain satisfactory records and were requested to withdraw; three students were required to withdraw. At the end of the year, the connection of eighty-four students was severed because of their low records. For an offence involving moral turpitude one student was expelled.

The most pressing problems of the Dean's office have continued to be those created or aggravated by the war. The problem of recognition in academic terms of war service and the equally difficult problem of maintaining a semblance of regularity without ignoring the extraordinary claims in certain special cases taxed the resources of the office and of the Administrative Board as severely, perhaps, as they have ever been taxed in any single year.

The degree of A.B. or S.B. for honorable service in the war was, at the suggestion of the Board of Overseers, established by the following vote of the Faculty of Arts and Sciences on January 21, 1919:

That the Faculty of Arts and Sciences is of opinion that a degree of A.B. or S.B. for honorable service in the war should be granted to students who shall have completed at least three-fourths of the requirements for those degrees, and who, owing to military service, have been unable to complete the entire course.

On January 27, 1919, the President and Fellows approved the degree as established and requested the Faculty to submit from time to time recommendations for it. The Dean's office naturally took over the task of scrutinizing records to see if the requirements for this newly established degree had been met. There proved to be many difficult points not thought of in advance and not deter-

mined by the vote. Should the degree be conferred on men who had lost their lives in the service? The Board thought it should. Should these men be given the degree no matter how few courses they had taken? This question was decided in the affirmative. Might a man take the "war degree" and later be a candidate for the regular degree? It was decided that he might, but that he could not hold both diplomas. Were candidates for the "war degree" to be required to concentrate and distribute their courses as for the regular degree? Clearly they could not be held to this requirement. After considering these points and many others, the Board recommended and the Faculty voted two general principles which have continued to govern the administration of this "war degree":

(1) That the degree, not being a degree earned in regular course, should be administered liberally.

(2) That only those requirements for the ordinary degree which have to be met before the beginning of the Senior year should regularly be exacted of candidates for the "war degree."

As regards the kind of service which shall be acceptable, the Board has, of course, been much puzzled to draw the line between service in the combatant forces and the various forms of so-called "war work." In only a few cases has the Board accepted service outside of the Army, the Navy, and the Marine forces. In these few cases, the men concerned have tried to enter the combatant branches, have been rejected as physically unfit, and have then entered some of the more active and dangerous branches of non-combatant service. Instead of limiting the "war degree" to men whose service had interfered with one-fourth of the work necessary for the degree, the Board recommended and the Faculty voted to recommend for this degree men whose military service has interfered with their college work to the extent of two or three courses, provided such men offer an amount of work less by two or three courses than that required for the regular degree. That is to say, men whose service had kept them away from College during the first third of the year 1918-19 were recommended for the "war degree" after having completed two courses less than would be required for the regular degree, since, had these men been in residence during the first third of the year, two courses would have been the maximum amount of college credit attainable.

One of the pressing questions brought up by the return of men from the service was the problem of deciding whether academic credit could be given for knowledge acquired in the service. After

considering the cases of many men who seemed to have learned enough about mathematics, chemistry, map making, and the like to deserve credit therefor in terms of Harvard courses, the principle was adopted, upon recommendation by the Board to the Faculty, that in the cases of such men, when a Division or a Department certifies that they have done the academic equivalent of a course or courses within the Division or Department, credit for such courses be given, provided the Chairman of the Division or Department thinks it practicable. It was understood that the total amount of credit so given shall not exceed two courses for each year in service. This meant that, in addition to the four courses allowed under the provisions for the "war degree," a man might very well get credit for two courses or even more, if his service had been long and had given him a fairly substantial education. The administration of this special form of credit has been a heavy burden upon those Departments where credit was most frequently sought, and the representatives of those Departments — notably, Professors Ford, Whittem, and Hughes — have coöperated most generously. Although in most cases the information for which credit was sought under this ruling had been gained either in actual service or in army training camps, yet we have occasionally been asked to recognize work done at foreign universities and have done so wherever the period of study was not less than a half-year.

We also tried to exercise liberality in deciding how late in the term we should allow men to register and how many courses they might take. The Committee on the Choice of Electives and the Dean's office agreed that there should be, as the term advanced, a decreasing maximum of work which might be taken. Under this ruling, some men were admitted to take two courses as late as half way through the term.

Then, too, we sought to achieve the proper modification of our rules and practice in the case of the many men who for a while could not quickly get their minds from a military to an academic state. Instead of the prompt and vigorous attack upon their courses which this office had fondly imagined might be the result of their military training, these men showed a laxness about study and attendance and a disinclination to submit to academic discipline which for a while both tried and puzzled the Dean's office. But the demoralization was so prevalent, not only here but apparently in other American colleges, that we felt obliged to give it recognition and a certain amount of leniency.

One of the most important tasks of the Dean's office consists in that preventive work which aims, not at the making of rules or the enforcement of them, but at changing undergraduate sentiment. Such efforts utterly fail unless they are seconded by leading undergraduates. The Dean's office recognizes with gratitude its obligation to the President and members of the Student Council, without whose coöperation certain plans could not possibly have been carried out.

C. N. GREENOUGH, *Acting Dean.*

ATHLETIC SPORTS

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— I have the honor of presenting a report on athletic sports for the academic year 1918–19.

In the early part of the year athletic sports gave way to military training; nor were they at any time in the year on a normal basis though intercollegiate contests were resumed after the Students' Army Training Corps had disbanded. So many athletes were in military or naval service through all or part of the year that athletic organizations, like all other organizations, felt the instability of the times. Yet since our rivals must have felt the same instability there was no satisfactory reason for Harvard's poor record in intercollegiate athletics.

The necessities of the time brought about an unusual number of changes in the membership of the Committee on the Regulation of Athletic Sports. Members officially appointed in the course of the year were:

<i>For the Faculty:</i>	Professor Henry A. Yeomans, '00 (Chairman). Professor Roger B. Merriman, '96 (Chairman, second half-year). Dr. Roger I. Lee, '01. Professor Dunham Jackson, '08. Professor Chester N. Greenough, '98.
<i>For the Graduates:</i>	Henry Pennypacker, '88. Benjamin L. Young, '07. Laurence Curtis, 2d, '16. John W. Farley, '98.
<i>For the Undergraduates:</i>	David B. Arnold, '17. Henry H. Faxon, '21. Robert E. Gross, '19.

Major F. W. Moore continued to act as Graduate Treasurer, though for the greater part of the year unpaid.

The chief source of income for the care of grounds and buildings, for the equipment of teams and crews, and for the conduct of sports intercollegiate and intramural is football. The abandonment of the customary football games for two years cut off our revenue, compelling us to pay most of such expenses as even in war time could not be avoided, with the receipts of the Yale and

Princeton games in 1916. By the spring of 1919, with athletics reviving long before the means of paying for them, a deficit was inevitable. This deficit, however, was not so large as to be alarming.

With the renewal of intercollegiate sports came fewer reforms than many persons interested in athletics had hoped for. The new leaf that we turned over bears a strong resemblance to the old; but we have effected some reduction in wasteful expenses and have at least opened some important questions, the discussion of which may result in more or less radical improvements. Representatives of Yale, Princeton, and Harvard agreed before the year was over to the publication of the announcement:

That in the opinion of the representatives of the athletic associations of Harvard, Yale, and Princeton, proselyting in any form is injurious to college athletics. They consequently urge the athletic authorities of each of the three universities to take the following or equivalent action:

All alumni, undergraduates and friends of Harvard are urged to refrain completely from offering any inducement to any schoolboy to enter Harvard, when the compelling motives in so doing is that boy's athletic skill or promise. The Athletic Committee feels that artificial hospitality of any sort, such as trips to the university, automobile rides, theatre parties, etc., constitutes an "inducement," under the meaning of this resolution, little less mischievous than offers of money, sinecure jobs, and other valuable considerations, which have already been specifically condemned. The Athletic Committee believes that persons attempting to induce schoolboys to enter Harvard for athletic reasons are working against the real welfare of the university, and against the friendly agreements of the athletic associations of Harvard, Yale, and Princeton.

The Committee directs that this request be published in the University papers, that copies be sent to the principal schools of the country, with a request that it be given wide publicity, and that the school authorities be urged to notify the chairmen of the athletic committees of the three universities of any infractions of the spirit of this request.

The most significant reform in the year has only an indirect bearing on intercollegiate athletics and is a distinct step in "athletics for all." Following a suggestion or request from the Board of Overseers, the Faculty with the support of the Committee voted to prescribe physical exercise for Freshmen. Dr. Roger Irving Lee, Professor of Hygiene, has given his summer to plans for putting the vote of the Faculty into effect this year with the class of 1923. Harvard College with its tradition of personal liberty has been slow in determining on physical prescription; but in this matter, as in many others, the war has hastened a change.

New testimony was afforded to the cordial relations between Harvard and Yale when the Yale authorities invited the Harvard

crew to share with the Yale crew the Yale quarters at Gales Ferry. It is not many years since such an invitation from either crew to the other would have been scarcely imaginable. Now, though it surprises some persons, it startles nobody and pleases nearly all.

Professor Robert N. Corwin, though still a member of the "Yale Board of Control" in athletics, has resigned the chairmanship. To say that he has had the confidence of every Harvard man who has worked with him is much, but not enough. In his openness and generosity he has perfectly illustrated Mr. Roosevelt's remark that Yale and Harvard are "natural adversaries and therefore natural friends." The duty of associating with Professor Corwin of Yale and with Dean McClenahan of Princeton has brought to Harvard chairmen constant pleasure and constant examples of good academic sportsmanship.

L. B. R. BRIGGS, *Chairman.*

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Dean of the Graduate School of Arts and Sciences, I have the honor to submit a report on the School for the academic year 1918-19.

The following tables present in summary form information concerning the number and distribution of the students, recommendations for degrees, and the assignment of fellowships and scholarships.

Table I shows that the number of students registered in the School was three hundred and fifty-eight. Of this number three hundred and fifty-five were resident, and three non-resident, all of whom were travelling fellows. Of the resident students one hundred and thirty-six were in attendance during the whole year, of whom ninety-six were doing full work. Of the remaining two hundred and nineteen resident students, one hundred and thirty entered the School after November 1, and ninety-four (including five of the preceding) withdrew before the end of the year.

TABLE I. — NUMBER AND CLASSIFICATION OF STUDENTS

	1916-17	1917-18	1918-19
I. Resident Students doing full work in the School for the whole academic year	326	142	96
Resident Students not doing full work or not working for the whole year as Resident Students	308	171	259
	—634	—313	—355
Travelling Fellows	17	10	3
II. Students whose studies lay chiefly in			
Semitic Languages and History . . . . .	..	3	1
Ancient Languages (Classics and Indic Philology)	20	11	5
Modern Languages (including Comparative Literature) . .	161	74	60
History, Government, and Economics	143	67	66
Philosophy	75	32	29
Education	61	36	28
Fine Arts	9	1	7
Music	6	1	..
Mathematics	23	12	12
Physics	23	13	12
Chemistry	53	24	26
Biology	30	22	12
Geology	14	5	6
Anthropology	8	2	1
Medical Sciences	13	7	6
Unclassified Students	11	11	9
Military Science . . . . .	..	..	1
S.A.T.C. (first term) . . . . .	..	..	62
Naval Unit (first term) . . . . .	..	..	17
Marine Unit (first term) . . . . .	..	..	5
			—365
Names counted twice . . . . .	..	..	7
	—650	—321	—358
III. First-year Students	304	155	213
Second-year Students	168	68	66
Third-year Students	101	56	27
Fourth-year Students	52	22	35
Students in fifth year or later	25	20	17
	—650	—321	—358
IV. *A.B.'s and S.B.'s of Harvard University and of no other institution	165	82	118
A.B.'s and S.B.'s (and holders of similar degrees) of other institutions and also of Harvard University	6	3	1
A.A.'s of Harvard University . . . . .	..	..	..
Students not holding the Harvard degree of A.B., S.B., or A.A.	479	236	239
	—650	—321	—358
V. Students holding the Harvard degree of A.M., S.M., Ph.D., or S.D.	155	79	75
*Students holding the Harvard degree of A.B., S.B., or A.A., but not of A.M., S.M., Ph.D., or S.D.	123	58	97
Students holding no Harvard degree in Arts, Philosophy, or Science	372	184	186
	—650	—321	—358

In Table II similar facts concerning residence and amount of work are set forth for a period of twenty years. Tables III and IV show the percentage of students in their first and following years and the percentage of graduates of Harvard College.

* Harvard College Seniors on leave of absence, with work for the bachelor's degree completed or nearly completed, are counted in this Table as holders of the degrees for which they are candidates in Harvard College.

TABLE II. — NUMBER OF STUDENTS: 1899-1919

	1899-1900	1900-01	1901-02	1902-03	1903-04	1904-05	1905-06	1906-07	1907-08	1908-09	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19
Resident Students doing full work in the School for the whole academic year.....	227	226	218	216	289	273	260	281	287	290	279	311	308	344	298	334	362	336	142	96
Resident Students not doing full work or not working for the whole year as Resident Students.....	99	113	86	94	123	105	133	105	119	123	156	147	139	134	197	222	275	308	171	259
Whole number of Resident Students.....	326	339	304	310	412	378	393	386	406	413	435	458	447	478	495	556	637	634*	313	355
Non-Resident Fellows.....	13	14	11	15	14	15	16	21	17	15	15	26	28	26	34	17	15	17*	10	3
Other Non-Resident Students.....	2	..	..	..	1	2	..	..	1	1	2	..	..	..	..	..	..	..	..	..
Whole number of Non-Resident Students.....	15	14	11	15	15	17	16	21	18	16	17	26	28	26	34	17	15	17	10	3
Whole number of Students.....	341	353	315	325	427	395	409	407	424	429	452	484	475	504	529	573	652	650	321	358
Percentage of Resident Students doing full work for whole academic year.....	70	67	72	70	70	72	66	73	71	70	64	68	69	72	60	60	57	51	44	27

* One duplication.

TABLE III. — PERCENTAGE OF STUDENTS IN THEIR FIRST AND FOLLOWING YEARS: 1906-19

	1906-07	1907-08	1908-09	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19
First-year Students	% 56	% 57	% 57	% 56	% 53	% 54	% 52	% 50	% 54	% 53	% 47	% 48	% 59
Second-year Students	21	23	24	25	28	23	25	23	21	25	26	21	18
Third-year Students	14	12	12	11	11	14	14	16	14	12	15	18	8
Fourth-year Students and Students of longer residence	9	8	7	8	8	9	9	11	11	10	12	13	15

TABLE IV. — PERCENTAGE OF GRADUATES OF HARVARD COLLEGE: 1914-15 — 1918-19

	1914-15	1915-16	1916-17	1917-18	1918-19
Total enrolment	573	652	650	321	358
*Number of graduates of Harvard College...	155	166	165	82	119
*Percentage of graduates of Harvard College.	27%	25%	25%	26%	33%
Number of graduates of other colleges and universities	418	486	485	239	239
Percentage of graduates of other colleges and universities	73%	75%	75%	74%	67%

* Harvard College Seniors on leave of absence are reckoned as graduates of Harvard College. A.A.'s of Harvard University are, for purposes of convenience, also so counted.

TABLE V.—COLLEGES AND UNIVERSITIES REPRESENTED BY FOUR OR MORE GRADUATES IN THE SCHOOL:
1914-15, 1915-16, 1916-17, 1917-18, 1918-19

1914-15	1915-16	1916-17	1917-18	1918-19
Harvard.....232	Harvard.....269	Harvard.....279	Harvard.....140	Harvard.....174
Dartmouth.....22	Yale.....18	Dartmouth.....22	Dartmouth.....12	Boston Coll.....10
Yale.....15	Dartmouth.....17	Yale.....20	Wisconsin.....10	Boston Univ.....9
Bowdoin.....13	Amherst.....14	California.....19	Northwestern (Ill.).....6	Columbia.....8
Brown.....12	California.....14	Columbia.....13	Tufts.....6	Dartmouth.....8
Princeton.....12	Princeton.....13	Minnesota.....13	Yale.....6	Mass. Inst. of Tech.....8
Princeton.....11	Bowdoin.....12	Tufts.....12	Colorado.....5	Yale.....8
Boston Univ.....10	Brown.....11	Michigan.....12	Michigan.....5	Amherst.....8
Missouri.....10	Columbia.....11	Wisconsin.....11	Minnesota.....5	Northwestern (Ill.).....6
Williams.....10	Western Reserve.....11	Bowdoin.....11	Syracuse.....5	California.....5
Mass. Inst. of Tech.....9	Texas.....10	Michigan.....11	Williams.....5	Coll. of the Holy Cross.....5
Amherst.....9	Tufts.....10	Princeton.....10	Amherst.....4	Illinois.....5
Clark.....8	Illinois.....9	Chicago.....10	Boston Coll.....4	Princeton.....5
Haverford.....7	Minnesota.....9	Illinois.....9	Boston Univ.....4	Tufts.....5
Oberlin.....7	Pennsylvania.....9	Missouri.....9	Brown.....4	Wisconsin.....5
Michigan.....7	Wisconsin.....9	Haverford.....8	California.....4	Bowdoin.....4
Minnesota.....7	Haverford.....8	Amherst.....7	Chicago.....4	Brown.....4
Texas.....6	Michigan.....8	Boston Univ.....7	Columbia.....4	Coll. of the City of New York.....4
Columbia.....6	Cornell Univ.....7	Cornell Univ.....7	Mass. Inst. of Tech.....4	Yale.....4
Leland Stanford Jr.....6	Ohio State.....7	Mass. Inst. of Tech.....7	Monmouth.....4	Vermont.....4
McGill.....6	Williams.....7	Northwestern (Ill.).....7	Western Reserve.....4	Weeleyan (Conn.).....4
Northwestern (Ill.).....6	Boston Univ.....6	Virginia.....7	Western Reserve.....4	Williams.....4
Ohio Northern.....6	Colby.....6	Western Reserve.....7		
Chicago.....6	Dalhousie.....6	Bates.....6		
Cornell Univ.....5	Indiana.....6	Clark.....6		
Hamilton.....5	Kansas.....6	Tulane.....6		
Ohio State.....5	Leland Stanford Jr.....6	Pennsylvania.....6		
Ohio Wesleyan.....5	Mass. Inst. of Tech.....6	Robert.....5		
Swarthmore.....5	Ohio Univ.....6	Leland Stanford Jr.....5		
Kansas.....5	Bucknell.....5	Oberlin.....5		
Pennsylvania.....5	Chicago.....5	Texas.....5		
Colby.....4	Northwestern (Ill.).....5	Allegheny.....4		
Mass. Agri. Coll.....4	Oberlin.....5	Colby.....4		
Illinois.....4	Boston Coll.....4	Coll. of the City of New York.....4		
Vermont.....4	Hamilton.....4	Dalhousie.....4		
Western Reserve.....4	Robert.....4	Lafayette.....4		
	McGill.....4	Mass. Agri. Coll.....4		
	Nebraska.....4	Vermont.....4		
	Pennsylvania.....4	Washington.....4		
	Trinity (Conn.).....4	Weeleyan (Conn.).....4		
	Vanderbilt.....4	West Virginia.....4		
	Virginia.....4			
Total Membership.....573	.....653	.....650	.....321	.....365

TABLE VI. — HOLDERS OF DEGREES FROM HARVARD AND
TWENTY-FOUR OTHER COLLEGES AND UNIVERSITIES:
1903-04 — 1918-19

	1903-04	1904-05	1905-06	1906-07	1907-08	1908-09	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19	Total
Harvard.....	232	192	197	185	182	182	199	218	211	215	239	232	269	279	140	174	3346
Dartmouth.....	12	9	6	10	8	9	10	11	13	21	17	22	17	22	12	8	207
Yale.....	9	7	8	7	6	5	7	7	16	16	14	15	18	20	6	8	169
Amherst.....	14	8	8	7	10	9	14	8	5	5	4	8	14	7	4	6	131
Brown.....	12	7	12	4	8	9	6	7	5	7	6	12	11	11	4	4	125
Bowdoin.....	7	5	3	5	6	8	7	9	10	10	10	13	12	11	2	4	122
Williams.....	7	7	7	3	7	6	8	6	7	9	11	10	7	10	5	4	114
Michigan.....	10	5	10	6	9	7	6	3	7	6	4	7	8	11	5	3	107
California.....	4	3	3	5	6	4	5	4	6	7	9	12	14	19	4	5	110
Haverford.....	7	5	5	5	3	6	8	8	8	6	11	7	8	8	2	2	99
Boston Univ.....	5	5	7	8	6	5	3	7	8	7	8	10	6	7	4	9	105
Chicago.....	1	3	4	4	4	5	8	8	5	7	9	6	5	10	4	3	86
Columbia.....	5	1	4	7	5	11	5	5	4	..	3	6	11	13	4	8	92
Tufts.....	6	3	1	2	..	4	5	5	2	5	7	9	10	12	6	5	2
Princeton.....	2	..	3	4	4	7	8	3	3	4	5	11	13	10	3	5	85
Ohio Wesleyan.....	8	14	12	4	5	3	4	4	5	..	4	5	2	3	2	1	6
Northwestern.....	2	2	1	1	2	6	6	8	6	9	2	6	5	7	6	6	5
Texas.....	5	3	1	2	6	5	6	3	2	4	7	7	10	5	2	2	0
Mass. Inst. of Tech. . .	1	1	2	2	4	6	6	5	4	5	8	9	6	7	4	8	78
Kansas.....	3	2	3	5	3	4	7	5	7	8	4	5	6	2	1	1	6
Toronto.....	4	5	3	8	4	5	2	6	7	5	3	2	3	2	2	2	3
Indiana.....	2	3	4	5	5	3	6	6	8	..	5	2	6	2	2	2	61
Leland Stanford Jr....	4	5	3	3	4	1	1	4	3	..	1	6	6	5	1	1	48
Dalhousie.....	2	2	4	2	3	3	3	4	4	5	4	2	6	4	..	..	48
Oberlin.....	..	1	3	3	3	4	4	..	2	..	5	7	5	5	1	2	45
Total Membership	427	393	409	407	424	429	452	484	475	504	529	573	652	650	321	358	

TABLE VII. — BIRTHPLACES OF GRADUATE STUDENTS:
1916-19

	1916-17	1917-18	1918-19
Students born in the New England States.....	204	99	138
Students born in other Northern States east of the Mississippi River.....	221	89	96
Students born in Southern States east of the Mississippi River.....	41	23	15
Students born in States west of the Mississippi River.....	97	35	37
Students born in the Dominion of Canada.....	22	7	9
Students born in other foreign countries.....	65	68	63
Total number of students.....	650	321	358
Percentage of students born in New England.....	31	31	39
Percentage of students born elsewhere.....	69	69	61

Tables VIII and IX set forth the number of candidates recommended for higher degrees and their distribution throughout the various Divisions and Departments.

TABLE VIII. — RECOMMENDATIONS FOR DEGREES IN 1917-19

	1917	1918	1919
I. Graduate Students recommended for A.M.	144	78	30
Graduate Students recommended for Ph.D.	67	45	24
	—211	—123	—54
II. Divinity Students recommended for A.M. on approved courses of study ..	..	1	..
Divinity Students recommended for Ph.D. on approved courses of study ..	..	1	..
	—	—	—
Total number recommended for A.M. and Ph.D.	211	124	54
III. Harvard Bachelors of Arts or Science, not previously graduated elsewhere ..	52	24	13
Harvard Bachelors of Arts or Science, previously graduated elsewhere ..	1	1	..
Harvard Associates in Arts ..	..	1	..
Students not Harvard Bachelors of Arts or Science ..	158	98	41
	—211	—124	—54

TABLE IX. — DIVISIONS AND DEPARTMENTS IN WHICH RECOMMENDATIONS FOR THE HIGHER DEGREES WERE MADE IN 1919

Division	Department	Degrees	
		A.M.	Ph.D.
Semitic Languages and History ..	..	..	..
Ancient Languages ..	2	..	..
Modern Languages:			
English ..	4	4	..
Germanic Languages and Literatures ..	1	1	..
French, and other Romance Languages ..	3	1	..
Comparative Literature ..	..	..	..
In more than one Department ..	..	..	..
Total in Modern Languages ..	—8	—6	..
History, Government, and Economics:			
History ..	3	..	..
Government ..	1	..	..
Economics ..	4	3	..
Total in History, Government, and Economics	—8	—3	..
Philosophy ..	5	2	..
Education ..	2	3	..
Fine Arts ..	..	..	..
Music ..	..	..	..
Mathematics ..	2	3	..
Physics ..	..	1	..
Chemistry ..	1	3	..
Biology:			
Botany ..	1	1	..
Zoology ..	..	..	..
Total in Biology ..	—1	—1	..
Geology ..	..	1	..
Anthropology ..	1	..	..
Medical Sciences ..	..	1	..
Undivisional ..	..	..	..
Professional Students:			
Divinity School ..	..	..	..
	—	—	—
Total ..	30	24	..

The degree of Doctor of Philosophy was conferred upon the twenty-four men named below.

FLOYD HENRY ALLPORT, A.B. 1913.

Subject, Philosophy. Special Field, Psychology. Thesis, "The Social Influence: An Experimental Study of the Effect of the Group upon Individual Mental Processes." Instructor in Psychology, Harvard University.

ALBERT STEPHENS BORGMAN, A.B. (*Univ. of Michigan*) 1911, A.M. (*Harvard Univ.*) 1912.

Subject, Philology. Special Field, English Philology. Thesis, "The Dramatic Works of Thomas Shadwell." Instructor in English, New York University.

LOUIS BRAND, CH.E. (*Univ. of Cincinnati*) 1907, E.E. (*ibid.*) 1908, A.M. (*ibid.*) 1909.

Subject, Mathematics. Special Field, Analysis. Thesis, I. "On Linear Equations with an Infinite Number of Variables." II. "On Infinite Systems of Linear Integral Equations." III. "Flexural Deflections and statically Indeterminate Beams." Associate Professor of Mathematics, University of Cincinnati.

THOMAS KITE BROWN, JR., A.B. (*Haverford Coll.*) 1906, A.M. (*ibid.*) 1907.

Subject, Philology. Special Field, Germanic Philology. Thesis, "Space Words in Germanic." Assistant Professor of German, Haverford College.

REGINALD ALEX CUTTING, A.B. 1914, S.T.B. (*Newton Theological Institution*) 1916, A.M. (*Harvard Univ.*) 1917.

Subject, Philosophy. Special Field, Psychology. Thesis, "Some Determining Factors in Choice Reactions." Instructor in Physiology, Tufts Medical School.

WILFRED ELDRED, A.B. (*Washington and Lee Univ.*) 1909, A.M. (*ibid.*) 1909, A.M. (*Harvard Univ.*) 1911.

Subject, Economics. Special Field, Economic History. Thesis, "The Wheat and Flour Trade of the United States under the Control of the Food Administration." Statistician, U. S. Grain Corporation, 42 Broadway, New York, N. Y.

WALLACE OSGOOD FENN, A.B. 1914, A.M. 1916.

Subject, Biology. Special Field, Botany. Thesis, "The Effect of Electrolytes on Organisms and on Gelatin." Instructor in Applied Physiology, Harvard Medical School.

RICHARD MONTGOMERY FIELD, S.B. 1909, A.M. 1914.

Subject, Geology. Special Field, Palaeontology. Thesis, "The Stratigraphy of the Middle Ordovician Formations of Central and South-Central Pennsylvania." Assistant Professor of Geology, Brown University.

CHARLES GOTT, A.B. (*Tufts Coll.*) 1911, A.M. (*Harvard Univ.*) 1914.

Subject, Philology. Special Field, English Philology. Thesis, "The English Stage (1698-1750) in Controversial and Critical Literature." Assistant Professor of English, Carnegie Institute of Technology.

NEILSON CAMPBELL HANNAY, A.B. (*Union Univ.*) 1902, Gr., *Auburn Theological Sem.*, 1905, B.D. (*ibid.*) 1906, A.M. (*Union Univ.*) 1913, A.M. (*Harvard Univ.*) 1919.

Subject, Philology. Special Field, English Philology. Thesis, "The Religious Element in the Life and Character of William Cowper." 28 Mellen Street, Cambridge.

KANG-FUH HU, A.B. 1913, A.M. 1915.

Subject, Physics. Special Field, Radioactivity. Thesis, "Studies in X-Rays." In China.

ERNEST JAMES JAQUA, A.B. (*Grinnell Coll.*) 1907, A.M. (*Columbia Univ.*) 1910.

Subject, Education. Special Field, Educational Administration. Thesis, "Secondary and Higher Education in Iowa." Care of President J. H. T. Main, Grinnell College.

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ROY WILLMARTH KELLY, A.B. (*Coll. of the Pacific*) 1911, A.M. (*Harvard Univ.*) 1916.

Subject, Education. *Special Field*, Educational Administration. *Thesis*, "Training Industrial Workers." Engaged in Employment Research, Roos Stores, San Francisco, Cal.

OTTO MAASS, A.B. (*McGill Univ.*) 1911, S.M. (*ibid.*) 1912.

Subject, Chemistry. *Special Field*, Physical Chemistry. *Thesis*, "The Effect of Pressure on Two-Phase Two-Component Systems." Assistant Professor of Physical Chemistry, McGill University.

WILLIAM HERMAN DIETRICH MEIER, A.M. 1911.

Subject, Education. *Special Field*, Elementary Education. *Thesis*, "Economic Biology in the Elementary Schools." Instructor in Science, State Normal School, Framingham.

EDWIN BRAY PLACE, A.B. (*Univ. of Colorado*) 1913, A.M. (*ibid.*) 1916.

Subject, Philology. *Special Field*, Romance Philology. *Thesis*, "A Study of the Works of Salas Barbadillo and María de Zayas." Assistant Professor of Romance Languages, University of Colorado.

CLARENCE NEWTON REYNOLDS, JR., PH.B. (*Brown Univ.*) 1913, A.M. (*ibid.*) 1914.

Subject, Mathematics. *Special Field*, Analysis. *Thesis*, "On the Zeros of Solutions of Linear Differential Equations." Instructor in Mathematics, Wesleyan University, Conn.

NORMAN JOHN SILBERLING, A.B. 1914, A.M. 1915.

Subject, Economics. *Special Field*, Money and Banking. *Thesis*, "A History of British Theories of Money and Credit, 1776-1848." Frederick Sheldon Fellow, in London.

CHAN-CHAN TSOO, A.B. (*Univ. of California*) 1915, A.M. (*Harvard Univ.*) 1917.

Subject, Mathematics. *Special Field*, Analysis. *Thesis*, "The Geometry of a Non-Euclidean Line-Sphere Transformation." Instructor in Mathematics, Harvard University.

LAURENCE GODDARD WESSON, S.B. (*Worcester Polytechnic Institute*) 1910.

Subject, Chemistry. *Special Field*, Organic Chemistry. *Thesis*, I. "The Nitrosite of Rubber for Use in the Estimation of Caoutchouc." II. "The Saponification Rates of Various Alkyl-substituted Malonic Esters." III. "On the Constitution of the Organic Nitrogen Bases of Californian Petroleum." Research Chemist, Institute of Industrial Research, Washington, D.C.

JOHN HENRY WILLIAMS, A.B. (*Brown Univ.*) 1912, A.M. (*Harvard Univ.*) 1916.

Subject, Economics. *Special Field*, International Trade. *Thesis*, "Argentine International Trade under Inconvertible Paper Money, 1880-1900." Assistant Professor of Economics, Princeton University.

HOMER EDWARDS WOODBRIDGE, A.B. (*Williams Coll.*) 1902, A.M. (*Harvard Univ.*) 1904.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "Sir William Temple: A Study of the Man and of his Works." Associate Professor of English, Indiana University.

DAVID ELBRIDGE WORRALL, S.B. (*Rhode Island State Coll.*) 1910, A.M. (*Harvard Univ.*) 1911.

Subject, Chemistry. *Special Field*, Organic Chemistry. *Thesis*, I. "On the Addition of Ammonia Bases to $\alpha\beta$ Unsaturated Nitro Compounds." II. "On some New Reactions with Sodium Phenylacetylene." Assistant Professor of Chemistry, Tufts College.

HSIEN WU, S.B. (*Mass. Institute of Technology*) 1916.

Subject, Medical Sciences. *Special Field*, Biochemistry. *Thesis*, "A System of Blood Analysis, with special Reference to Uric Acid." Assistant in Biological Chemistry, Harvard Medical School.

TABLE X. — FELLOWSHIPS AND SCHOLARSHIPS (1917-20) *

1. *Applications and Appointments*

	1917-18	1918-19	1919-20
Spring applicants for reappointments or promotion	73	39	65
Spring applicants for a first appointment	320	114	232
Later applicants	56	47	47
	—449	—200	—344
Appointed to fellowships	26	13	32
Appointed to scholarships	56	22	93
Appointed instructors, teaching fellows, or assistants	14	7	22
	— 96	—42	—147
Deduct for repetitions		3	5
	— 96	—39	—142
Entered or continued in the Graduate School of Arts and Sciences without receiving any of the above-named appointments	35	17	40
Entered undergraduate classes of Harvard College	1	..	..
Entered other Departments of the University	6	..	1
	— 90	— 17	— 41
Applicants who were at the University in the year following their applications	138	56	183
Applicants not at the University in that year	311	144	161
	—449	—200	—344

* This Table is based primarily upon the work of the Committee on Fellowships and other Aids for Graduate Students, and therefore does not always represent the total number of appointments awarded to Graduate Students in any given year, since certain appointments are made by the Corporation upon the direct recommendation of the Committee on the Sheldon and other General Fellowships and in similar ways. It is, however, sufficiently accurate for purposes of comparison.

2. Classification of Applicants and Appointees

	1917-18		1918-19		1919-20	
	Applicants	Appointees	Applicants	Appointees	Applicants	Appointees
Students of Philology	148	26	67	15	103	37
Students of History, Political Science, Philosophy, or Education	168	34	81	15	146	52
Students of Mathematics, Physics, or Chemistry	74	9	27	3	62	24
Students of Natural History	44	11	21	..	28	12
Students of other branches, or unclassified....	15	2	4	2	5	..
	449	82	200	35	344	125
Students in Graduate School of Arts and Sciences.....	138	36	59	14	71	40
Students in Harvard College.....	31	4	9	1	10	2
Students in other Departments of the University	1	...	4	3	1	1
Former Students in some Department of the University	36	8	20	2	61	30
Persons never previously members of the University	243	34	108	15	201	52
	449	82	200	35	344	125
*Harvard Bachelors of Arts or Science, not previously graduated elsewhere	42	6	17	4	35	18
Harvard Bachelors of Arts or Science previously graduated elsewhere .....	...	...	...	...	1	...
Graduates of other institutions, not Harvard Bachelors of Arts or Science	303	61	147	27	253	89
Undergraduates of Harvard College	27	4	9	1	11	2
Undergraduates of other institutions and other non-graduates	77	11	27	3	44	16
	449	82	200	35	344	125

Twenty-six fellowships were assigned for the year 1918-19. There were twenty-three resident and three non-resident appointments. A list of the incumbents follows. After the name of each fellow is given the name of his fellowship, the subject that he studied, and his present occupation. The place of study of the non-resident fellows is also indicated.

TRAVELLING FELLOWS

YUEN REN CHAO, Frederick Sheldon Fellow. Philosophy. Chicago.

Instructor in Physics, Cornell University.

RAPHAEL DEMOS, Frederick Sheldon Fellow. Philosophy. London.

Instructor in Philosophy, Harvard University.

RAY ETHAN TORREY, Frederick Sheldon Fellow. Botany. Colorado.

Instructor in Botany, Massachusetts Agricultural College.

* Harvard College Seniors on leave of absence are reckoned as graduates of Harvard College.

RESIDENT FELLOWS

- FLOYD HENRY ALLPORT, Robert Treat Paine Fellow. Psychology.
Instructor in Psychology, Harvard University.
- REGINALD FRANCIS ARRAGON, Bayard Cutting Fellow. History.
Bayard Cutting Fellow, in London.
- FRANCISCO AZÁRRAGA, Thayer Fellow. Psychology.
Liberty, N.Y.
- BENJAMIN CROCKER CLOUGH, Christopher M. Weld Scholar. English.
Rogers Fellow, in London.
- ZENAS CLARK DICKINSON, Edward Austin Fellow. Economics.
Associate Professor of Economics, University of Minnesota.
- GEORGE HOWARD GELSINGER, Francis Parkman Fellow. Classics.
Master in Greek, Collegiate School, New York, N. Y.
- MARTIN GUSTAVE GLAESER, Thayer Fellow. Economics.
Statistician, Milwaukee Electric Railway and Light Company, Wis.
- GREGORY HANKIN, Henry Bromfield Rogers Memorial Fellow. Philosophy.
Fourth-year Graduate Student.
- NEILSON CAMPBELL HANNAY, Willard Scholar. English.
University Extension Department, State Board of Education, Boston.
- CHARLES EMIL KANY, Thayer Fellow. Romance Languages.
Third-year Graduate Student.
- ARCHIBALD FORSTER MCGOWN, Edward Austin Fellow. Economics.
37 Bellevue Avenue, Westmount, Que.
- DAVID ROBERT MERRILL, Du Pont Fellow. Chemistry.
Second-year Graduate Student.
- EDWIN BRAY PLACE, Edward Austin Fellow. Romance Languages.
Assistant Professor of Romance Languages, University of Colorado.
- LESTER MARSH PRINDLE, William Watson Goodwin Fellow. Classics.
Frederick Sheldon Fellow, in Rome.
- VANGALA SIVA RAM, Ozias Goodwin Memorial Fellow. Government.
Parker Fellow, in Cambridge, England.
- GEORGE SCHWAB, Hemenway Fellow. Anthropology.
Kribi, Cameroon, Africa.
- LEE IRVIN SMITH, Edward Austin Fellow. Chemistry.
Fifth-year Graduate Student. Instructor in Chemistry.
- CARL FREDERICK TAEUSCH, Philip H. Sears Scholar. Philosophy.
Third-year Graduate Student.
- ALWIN THALER, Harris Fellow. English.
Frederick Sheldon Fellow, in London.
- PIERSON MUIR TUTTLE, Henry Lee Memorial Fellow. Economics.
Third-year Graduate Student.
- NORMAN JAY GOULD WICKEY, James Walker Fellow. Philosophy.
Parker Fellow, at Oxford.
- GEORGE EARL WILSON, Thayer Fellow. History.
Professor of History, Dalhousie University, N. S.
- GEORGE CAMPBELL WOOD, Thayer Fellow. Romance Languages.
Fourth-year Graduate Student.

	1916-17	1917-18	1918-19
Whole number of men who applied for, or stated an intention of applying for, the A.M. degree.....	229	103	53
Of these there received the degree	143	77	30
" " " had the degree postponed because of charges unpaid	1	2	..
" " " had the degree postponed to await necessary lapse of time from conferral of Bachelor's degree.	3	..	..
" " " made a sufficient record but did not apply voluntarily	3	..	..
" " " withdrew .....	..	..	..
Total number who completed work	— 150	— 79	— 30
Of the rest there withdrew from the School before the end of the year	15	13	6
" " " " failed because of incomplete or unsatisfactory records.	55	9	14
" " " " " French condition.	3	1	1
" " " " " German condition.	2	..	1
" " " " " both French and German conditions.	1	..	..
" " " " " other conditions.	1	1	1
" " " " withdrew from candidacy because of assistantships.	1	..	..
" " " " were not admitted to candidacy because of amount of outside work	1	..	..
Total number who did not complete work.....	— 79	— 24	— 23
	229	103	53

The most important recent act of the Faculty with respect to the Graduate School is contained in the following votes of May 6, 1919, concerning graduate study in the Summer School:

1. The requirements of candidacy for the degree of Master of Arts in the Summer School are identical with those now in force for the degree as ordinarily given. Candidates must be registered in the Graduate School of Arts and Sciences. They must apply to the Administrative Board of the School, on a blank to be obtained from the Secretary of the School, for admission to candidacy. Candidacy is restricted to graduates of colleges and scientific schools of good standing who present satisfactory evidence of character and qualifications. An elementary knowledge of two modern foreign languages, ordinarily French and German, is required. The general regulations now in force concerning programmes of study for the degree of Master of Arts and concerning the approval of such programmes by Division Committees and the Administrative Board of the Graduate School of Arts and Sciences apply equally to programmes for the degree when taken on summer work.
2. Not more than two summer courses may be counted for the degree of A.M. in any one summer session.
3. The minimum number of courses required of candidates for the A.M. on work in the Summer School only shall be nine summer courses.
4. The minimum requirement of residence for candidates for the A.M. on summer work only shall be five summer sessions.

The eleven weeks of instruction offered by the Summer School in 1919 enabled a large number of students who entered about the first of January to complete a full year of work for a higher degree, while other graduates were doubtless attracted by the possibility of beginning work in the summer toward the degree of Master of Arts. Still others who took advantage of the opportunities of the Summer School did not register as candidates for a degree. The total registration of graduate students during the first session was 345, and during the second session, 115.

CHARLES H. HASKINS, *Dean*.

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Acting Dean, I have the honor of presenting my report upon the Graduate School of Business Administration for the academic year 1918-19, the eleventh year of the School's life. The report covers both the regular session, which began on September 23, 1918, and ended on May 24, 1919, and the special session, which began on January 27, 1919, and ended on August 30, 1919.

The number of students registered is shown in the following comparative table, counting as "regular" students college graduates taking full work in the School: —

Date	Regular Students				Unclassified Students	Special Students			Totals
	1st yr.	2d yr.	Grad.	Total		A ¹	B ²	Total	
1908-09	33	..	.	33	.	25	22	47	80
1909-10	42	8	.	50	.	15	26	41	91
1910-11	43	10	.	53	.	15	26	41	94
1911-12	55	10	.	65	.	12	19	31	96
1912-13	77	11	.	88	.	13	19	32	120
1913-14	66	32	.	98	1	13	5	18	117
1914-15	107	27	.	134	1	19	12	31	166
1915-16	116	40	.	156	1	16	17	33	190
1916-17	133	50	1	184	9	22	17	39	232
1917-18	38	30	.	68	4	13	12	25	97
1918-19 ³	109	22	1	132	2	8	17	25	159

¹ College graduates taking partial work.

² Not holding college degrees.

³ Both regular and special sessions; 22 men in S.A.T.C. and Naval Unit not included.

Registration during 1918-19 comprised the following:
Regular Session, September, 1918, to May, 1919:

First-year Students	18	
Second-year Students	6	
Unclassified Student	1	
Special Students	7	32

Special Session, January to August, 1919:

First-year Students.....	91	
Second-year Students.....	16	
Graduate Student.....	1	
Unclassified Student.....	1	
Special Students.....	18	127
	<hr/>	<hr/>
Total.....		159

DISTRIBUTION BY COLLEGES, 1918-19

Adelbert College.....	1	Osaka Higher Commercial Col- lege.....	1
Amherst College.....	1	Pomona College.....	2
Arkansas College.....	1	Princeton University.....	2
Baker University.....	1	Rensselaer Polytechnic Institute	1
Bates College.....	1	Ripon College.....	1
Boston College.....	7	St. John's University.....	2
Bowdoin College.....	1	Simpson College.....	1
Brown University.....	2	Swarthmore College.....	1
Capital University.....	1	Tufts College.....	5
Clark College.....	1	University of Acadia.....	1
Coe College.....	1	University of California.....	3
Colby College.....	1	University of Idaho.....	1
Cornell College.....	1	University of Illinois.....	4
Dalhousie College.....	1	University of Florence, Italy..	1
Dartmouth College.....	3	University of Maine.....	1
Denison University.....	1	University of Minnesota.....	4
De Pauw University.....	1	University of New Mexico....	1
Hamline University.....	1	University of Paris.....	1
Harvard University.....	51	University of Pennsylvania....	2
Holy Cross College.....	1	University of Washington....	1
Imperial University of Tokyo..	1	University of Wisconsin.....	2
Iowa State Teachers' College...	1	Washburn College.....	1
Johns Hopkins University.....	1	Whitman College.....	1
Keio University.....	1	Williams College.....	2
King's College.....	1	Wofford College.....	1
Leland Stanford Jr. University..	4	Yale University.....	4
Massachusetts Institute of Tech- nology.....	1		<hr/>
New York University.....	1	Total.....	144
Northwestern University.....	1	Total number of College Grad- uates.....	142
Oberlin College.....	2	Total number of Colleges rep- resented.....	58
Ohio University.....	2	Counted more than once....	2
Ohio Wesleyan University.....	2		

DISTRIBUTION BY COLLEGES, 1908-19

1908-09.....	14	1914-15.....	64
1909-10.....	19	1915-16.....	71
1910-11.....	22	1916-17.....	84
1911-12.....	24	1917-18.....	58
1912-13.....	42	1918-19.....	58
1913-14.....	47		

DISTRIBUTION BY STATES, 1918-19

STATES:		STATES:	
Arkansas.....	1	New York.....	8
California.....	7	North Dakota.....	1
Connecticut.....	2	Ohio.....	13
Idaho.....	1	Oregon.....	2
Illinois.....	4	Pennsylvania.....	2
Indiana.....	3	Rhode Island.....	4
Iowa.....	5	South Carolina.....	1
Kansas.....	2	Texas.....	2
Kentucky.....	1	Washington.....	4
Maine.....	3	Wisconsin.....	1
Maryland.....	2		
Massachusetts.....	65	FOREIGN COUNTRIES:	
Minnesota.....	4	Nova Scotia.....	2
Nebraska.....	1	China.....	7
New Jersey.....	1	France.....	1
New Hampshire.....	1	Japan.....	5
New Mexico.....	2	Ukraine.....	1

DISTRIBUTION BY STATES, 1908-19

	States	Foreign Countries		States	Foreign Countries
1908-09	12	2	1914-15	35	4
1909-10	16	5	1915-16	34	3
1910-11	20	2	1916-17	35	3
1911-12	20	4	1917-18	26	4
1912-13	26	4	1918-19	27	5
1913-14	28	2			

The degree of Master in Business Administration was conferred in June, 1919, upon four men, whose names are given below with the subjects of their graduation theses: —

Milford James Baker, A.B. (*Washburn Coll.*) 1917.

"Merchandise Losses, Causes and Remedies, in a Specified Specialty Store."

Douglas James Grant, A.B. 1918.

"A Method of Handling Worked Material Orders at the Boston Navy Yard."

Fukumatsu Muramoto, Gr., *Osaka Higher Commercial School, Japan*, 1910.

"The Problems in Retail Price-Fixing."

Chien-hou Nee, s.b. (*Univ. of Pennsylvania*) 1917.

"Scheduling in a Shoe Factory."

Sixteen men finished the work for the degree of Master in Business Administration on August 30, 1919. Formal action by the Faculty recommending them for the degree could of course not be taken until after the beginning of the academic year 1919-20. The names of these men are given below with the subjects of their graduation theses: —

James Syng Armstrong, LITT.B. (*Princeton Univ.*) 1916.

"A Consideration of the Value of Sinking Funds in Connection with Railroad Securities."

Joel Dibble Austin, A.B. 1916.

"The Accounting Treatment of Appreciation."

Chester Junius Cadle, A.B. (*Univ. of Illinois*) 1916.

"Methods of Maintaining Efficient Management in Industrial Corporate Enterprises."

Guy Berwyn Condon, A.B. (*Univ. of Maine*) 1916.

"Report to an Executive of the Cost and Methods of Operating a Specified White Pine Tract."

Donald Kirk David, A.B. (*Univ. of Idaho*) 1916.

"A Store Layout Plan for a Chain of Grocery Stores."

Emmet James Durkin, A.B. (*Univ. of California*) 1916.

"The Functions of an Industrial Service Department of a Bank."

Owen Winchester Graves, A.B. (*Acadia Univ.*) 1914.

"Prerequisites and Factors to the Effective Use of Works Committees."

William Dorsey Kennedy, A.B. (*Williams Coll.*) 1916.

"A Plan for the Establishment of a Freight Forwarding Concern in Boston."

Raymond James McCanna, A.B. (*Univ. of New Mexico*) 1917.

"An Investigation Based on the Dean Schedule, of the Fire Insurance Rates paid by Harvard College."

Howard Scott Noble, A.B. (*Simpson Coll.*) 1914.

"Methods of Determining Cost of Sales in Distribution of Automobiles."

Wesley Lee Paul, A.B. (*Pomona Coll.*) 1917.

"A Plan for the Development of an Export Department of a Specialty Manufacturing Company."

George Baltzer Peterson, A.B. (*Univ. of California*) 1916.

"A Method of Determining the Costs of Manufacturing Ball Bearings."

William Allen Reynolds, A.B. (*Whitman Coll.*) 1916; A.M. (*ibid.*) 1917.

"Financing the Wheat Crop in the Pacific Northwest."

Herbert William Schmid, A.B. (*Amherst Coll.*) 1917.

"A Plan for the Diversion of Export Traffic to Boston to Replace the Loss in Exports in Grain."

Von Valjean Tarbill, s.b. (*Ohio Wesleyan Univ.*) 1912.

"A Study of the Possibilities of the Greater Use of the Long Distance Telephone for Securing Orders by Wholesale Merchants."

Lester Gravatt Wood, s.b. (*Hamline Univ.*) 1916.

"The Utilization of the Products of a Specific Chestnut Woodlot."

During the year 1918-19, grants to students from the Business School Loan Fund were made to the amount of five hundred and fifty dollars (\$550). Repayments to the amount of one thousand, two hundred and seventy-seven dollars and sixty-two cents (\$1277.62) were received. The year ended with a balance on hand of two thousand, five hundred and eleven dollars and fifteen cents (\$2511.15).

During the summer of 1918 plans were perfected for offering special concentrated one-year courses to meet the existing national need for trained specialists. Under this temporary modification of the School's policy of instruction a man's program could include within one year all the specialized courses in one of the three fields of Accounting, Factory Management, or Statistics. Since this necessarily involved the omission of many of the more general and foundational courses, persons taking such a concentrated program were not deemed candidates for a degree, although, of course, it would be their privilege to return to the School at some future year for further study and thus complete all the requirements for the degree in one additional year of work. The sole purpose of this temporary arrangement was to offer opportunity for training for civilian positions to men above the draft age and to those unfitted for military service. Only three men availed themselves of this opportunity.

When, in the fall of 1918, the War Department established a Students' Army Training Corps, a unit of which was authorized at Harvard, the Business School coöperated with other departments of the University in giving instruction in certain subjects to members of this Corps, and also to members of the Naval Unit which was later established. Nineteen members of the Students' Army Training Corps who were preparing for the Ordnance or the Quartermaster service registered in the Business School. Programs of these men, in addition to military drill and instruction in military subjects, included at least eighteen hours a week of Economics, Accounting, Factory Management, Statistics, or Transportation. In addition, a number of members of the Corps who were registered in the Graduate School of Arts and Sciences and a few Seniors in Harvard College who had majored in Econom-

ics included in their programs of study one of the Business School courses in Accounting, Factory Management, or Statistics. Of the twenty-two men in the Students' Army Training Corps and Naval Unit who took their academic work in the Business School, sixteen were college graduates over twenty years of age, and six were men over twenty-one who had had several years of business experience. After the demobilization of these two units was completed during the first part of December, three men from the Students' Army Training Corps and one from the Naval Unit entered the Business School as regular students. Men who did not continue their work in this School after receiving their discharge from the Students' Army Training Corps are not included in the statistical tables at the beginning of this report.

Two courses open to men in the Students' Army Training Corps who were not qualified for graduate instruction were conducted by members of the Business School staff for the benefit of men preparing for the Quartermaster or Ordnance service. A course meeting three times a week entitled Business 1 was given by Professor Schaub to men preparing for the Quartermaster Corps. This was a comprehensive course, elementary in character, and embraced a survey of the structure and operations of the business world and an introduction to the problems of business administration. Under the title of Business Management, a condensed course in Factory Management with all fieldwork omitted was offered by Mr. Farquhar to men preparing for the Ordnance Corps.

Owing to war conditions, no courses were offered during 1918-19 under the group headings of Transportation, Insurance, Printing and Publishing, Courses Training for Secretaryships of Chambers of Commerce, and Local Public Utilities. A few other separate courses were not offered, namely: Industrial Accounting (advanced course), Law relating to Banking Operations, Latin-American Trade Problems, and Principles of Forestry. The three half-courses, Investments, The Financial Management of Industrial Corporations, and The Financial Management of Railroad Companies, were modified and combined into one full-year course entitled Corporation Finance and Investments and given by Professor Sprague during the special session. A number of courses usually offered in the fall were not given until the opening of the special session. These comprised all the courses under the heading of Banking, the two full courses, Law relating to Business Associations, and Business Policy, and the advanced Marketing courses. The Business Policy course was under the charge of

Professor Copeland. Many courses which were offered in the fall were repeated in the special session, resulting in a double program for the first half of the special session. Courses repeated were Accounting (entire), Commercial Contracts, Marketing, Industrial Management (entire), Business Statistics (entire), Foreign Trade, and Lumbering. Professor Gries had charge of the first half of Marketing (regular session), and Professor Copeland of the last half; Professor Cherington was in charge of the special session course on Marketing. Foreign Trade (regular session) was given by Professor Schaub, and, after January 1, by Professor Sprague; Professor Cherington had charge of the special session course in Foreign Trade. A new course entitled Office Organization and Devices was given during both sessions by Mr. Stone. This course met only once a week, with additional fieldwork, and did not count toward any degree. In connection with the course use was made of the Laboratory of Business Devices.

The special session offered opportunity to secure a full academic year of instruction to men discharged from war service too late to take advantage of the regular session. As a concession to men whose entrance into business would be delayed because of war service, a modification in the requirements for admission to the School was made. Students who were not holders of a bachelor's degree from an approved college or scientific school were nevertheless admitted as regular students and candidates for our degree provided they were entitled to senior rank in an institution of this kind at the beginning of the academic year 1918-19, and for six months had been in the military or naval service of the United States or of one of the countries associated with the United States, or in civilian war work occupying their full time. Of the ninety-one men entering the special session for first-year work, twenty-five were enabled to enter because of this modification in admission requirements.

A number of the members of the Faculty were on leave of absence for government work, some throughout the entire year, and others for the first half-year. Dean Gay continued his activities in Washington as Director of the Division of Planning and Statistics of the United States Shipping Board. He was also a member of the War Trade Board, in charge of the Bureau of Research and Statistics, and Chairman of the Division of Planning and Statistics of the War Industries Board. In June, 1918, when the Central Bureau of Planning and Statistics was established, under direct authority of the President, Dean Gay was appointed Director

and served until June 30, 1919, when the Bureau was discontinued owing to lack of further government appropriation. The main duty of the Central Bureau was to prepare for the President periodic reports on the war activities of the Government; its secondary duties were the correlation of statistical work of all government units, together with collection and dispatch of economic data required by the American delegates at the Peace Conference.

Professor Cunningham was in Washington through the entire year as Manager of the Operating Statistics Section of the Division of Operation, United States Railroad Administration. After one year's service in that section from its establishment in May, 1918, he was promoted to the position of Assistant Director of Operation. In this capacity he had general supervision over matters of a financial, accounting or statistical nature within the Division of Operation, having specific charge, as Chairman of the Committee on Maintenance, of controlling maintenance expenditures of the railroads under federal control.

Professor Cherington, who had been in Washington with the United States Shipping Board from March 1, 1918, as special expert in the commodity section of the Division of Planning and Statistics, continued his services there until December 1, 1918. During October and November he also sat almost daily with the woolens section of the textile division of the War Industries Board. During the month of December he devoted his entire time to organizing the clothing and fibers work undertaken by the price section of the Division of Planning and Statistics of the War Industries Board. On December 31, 1918, he left Washington and resumed his work at the School.

Professor Copeland continued his work in Washington as Secretary of the Conservation Division of the War Industries Board, until January 1, 1919, when he returned to Cambridge. Upon his return he resumed the directorship of the Bureau of Business Research which in his absence had been carried on by Professor Gries. In addition to his regular work in the Business School he acted, from January 1, 1919, as Secretary of the Research Committee of the National Council of Cotton Manufacturers.

Professor Sprague served as adviser to the Council of National Defense for three months prior to December 30, 1918. On the first of January he returned to Cambridge and resumed his regular courses in the Business School.

In accordance with the practice of preceding reports, I am glad to acknowledge the coöperation in our instruction during the past

year (both regular and special sessions) of the following outside lecturers:

BUSINESS MANAGEMENT AND FACTORY MANAGEMENT

- H. Abrahams of Boston: "Labor Unions."
 L. P. Alford of New York: "Labor Saving Machinery and Management."
 L. H. Ballou of Walpole: "Introduction to Scientific Management."
 Commander F. G. Coburn, U. S. N.: "Peace Problems of Naval Aircraft Factory."
 Hugo Diemer of State College, Pennsylvania: "Scientific Management and Organized Labor" (two lectures).
 H. L. Gantt of New York: "Industrial Problems of Today" (two lectures).
 H. K. Hathaway of Philadelphia: "Scientific Management in Machine Shops."
 H. B. Hayden of Framingham: "Industrial Partnership."
 E. D. Jones of Washington, D. C.: "Basis of Wage Determination."
 H. P. Kendall of Walpole: "Work of the Factory Manager."
 W. B. Medlicott of Boston: "Fire Protection."
 H. C. Metcalfe of Medford: "Welfare Work."
 P. L. Reilly of Framingham: "Employment Management."
 C. E. Shaw of Framingham: "Employment Department."
 J. F. Tobin of Boston: "Labor Unions."

TAYLOR SYSTEM OF MANAGEMENT

- Commander F. G. Coburn, U. S. N.: "Cost Keeping."
 H. K. Hathaway of Philadelphia: "Order of Work Function."
 S. E. Thompson of Boston: "Time Study."

BUSINESS POLICY

- R. B. Carter of Boston: "A Problem in Distribution" (three lectures).
 Howard Coonley of Boston: "A Problem in Organization in the Emergency Fleet Corporation" (three lectures).
 H. S. Dennison of Framingham: "A Labor Problem of a Manufacturing Company" (three lectures).
 Paul E. Fitzpatrick of Boston: "A Problem in a Wholesale Dry Goods Business" (three lectures).
 J. S. Hamilton of Boston: "A Transportation Problem of a Wool Manufacturing Company."
 C. H. Jones of Boston: "A Labor Problem in a Shoe Manufacturing Business" (three lectures).
 W. J. Joyce of Boston: "Labor Problems from the Trade Union Standpoint."
 H. P. Kendall of Norwood: "A Financial Problem of a Manufacturing Company."
 J. S. Lawrence of Boston: "A Problem in the Textile Export Trade" (three lectures).
 G. K. Manson of Boston: "A Financial Problem of a Telephone Company."
 H. W. Mason of Boston: "Purchasing Problem in a Paper Manufacturing Business" (three lectures).
 W. B. Medlicott of Boston: "Fire Insurance Problems" (three lectures).

- E. G. Preston of Boston: "A Problem in a Wholesale Grocery Business" (three lectures).
 P. M. Ripley of New York: "A Traffic Problem of a Sugar Refining Company."
 Murray Sargent of New Haven: "Production Problems of a Hardware Manufacturing Company."
 W. F. Severn of Bridgeport, Conn.: "A Problem in a Wholesale Lumber Business" (three lectures).
 W. L. Shaw of Boston: "A Labor Problem of a Shoe Manufacturing Company."
 T. W. Slocum of New York: "Problems in the Textile Business" (two lectures).

The following firms have been added during the past year to those available for the inspection of our students in the Industrial Management courses:

Lancaster Mills, Clinton, Mass.
 Leopold Morse Company, Boston.
 Nashua Gummed and Coated Paper Company, Nashua, N. H.
 A. W. Tedcastle and Company, Boston.

Valuable laboratory instruction was also afforded our students in the course in Office Organization and Devices through the kind coöperation of the following firms:

American Multigraph Sales Company, Boston.
 Christian Science Publishing Company, Boston.
 Dennison Manufacturing Company, Framingham.
 Edison Electric Illuminating Company, Boston.
 Hood Rubber Company, Watertown.
 George E. Keith Company, Campello.
 Jordan Marsh Company, Boston.
 Arthur D. Little, Inc., Cambridge.
 New England Telephone and Telegraph Company, Boston.
 Remington Typewriter Company, Boston.
 Underwood Typewriter Company, Boston.
 United Drug Company, Boston.

Three lectures were given before the class in Office Organization and Devices by business men whose interested coöperation is much appreciated. The lecturers were:

C. H. Lehman, Dictograph Company, New York.
 E. R. Potter, Johns-Manville Company, Boston.
 H. S. White, Sampson and Murdock Company, Boston.

During the past year the Bureau of Business Research has received reports from sixty-seven shoe retailers, two hundred and seventeen retail grocers, one hundred and forty-two general mer-

chandise stores, one hundred and twenty-one wholesale grocers, two hundred and forty-five hardware retailers, and also some scattered reports from merchants in other trades. Preliminary summaries of the reports from shoe retailers and wholesale grocers have already been prepared and furnished to members of the teaching staff of the School and also to our coöperators in these trades. They will be used at some later date in the bulletins of the Bureau. In April, 1919, the Bureau published its bulletin on Operating Expenses in Retail Hardware Stores. This bulletin gave the first results of the Bureau's investigation in that business. Another bulletin is now ready for the press on management problems and operating expenses in retail grocery stores. This summarizes the data gathered from retail grocery stores and general merchandise stores during the last five years.

The Bureau has received a gift of \$5,000 from the American National Retail Jewelers' Association, with a guarantee of \$5,000 a year for the next two years for a study of the retail jewelry business. A standard accounting system is being prepared and will be issued during the summer, as a basis for obtaining reliable figures on the operating expenses of retail jewelers. An investigation has also been commenced in the retail drug trade, and a uniform accounting system for that business is also nearly completed.

At the time the Bureau of Business Research was established, it was anticipated that its study of the retail shoe trade and the other investigations that were to follow could each be completed in a few years and that then the Bureau could direct its attention entirely to new investigations. It has been found, however, that enough merchants in each of these trades strongly desire to submit reports to the Bureau each year to justify continuing the policy of an annual summary of operating expenses. This annual compilation seems to be especially worth while at the present time in order to throw light upon the changes that are taking place in business costs and methods during a period of suddenly shifting prices and varying business conditions. It is planned therefore to continue to receive statements from each of these trades annually.

The following men addressed the Business School Club during 1918-19:

Professor P. T. Cherington, Business School Faculty: "Prospects of the Port of Boston."

H. L. Gantt of New York: "Modern Industrial Problems."

Dean Edwin F. Gay, Business School Faculty: "The Business School, Past, Present and Future."

- F. C. Hood, President, Hood Rubber Company, Watertown: "Changes in Organization to meet Expansion."
- J. F. Moors of Boston: "The Outlook in Business."
- E. R. Morgan, Curtis Publishing Company, Philadelphia: "What an Employer expects of an Executive."
- W. L. Shaw, W. H. McElwain Company, Boston: "Labor Problems."
- E. T. Slattery, President, E. T. Slattery Company, Boston: "The Field of the Specialty Store in Retail Merchandising."
- M. H. Smith, Curtis Publishing Company, Philadelphia: "Some Aspects of National Advertising."
- C. A. Whipple, Wm. Filene's Sons Company, Boston: "Some Department Store Problems."

A lecture under the auspices of the Business School was given on November 26, 1918, by Captain David Potter, P. C., U. S. N., on the subject of the Pay Corps of the Navy.

It is with regret that I have to chronicle a gap made in the Faculty at the end of the year by the resignation of Paul Terry Cherington, Professor of Marketing. He had been on the staff since the founding of the School and received a series of well-earned promotions ending with his appointment as Professor of Marketing in 1918. Although most of his teaching fell within the field of Marketing and Advertising, he displayed great versatility and organized and gave instruction in Chamber of Commerce Work and Methods, and Foreign Trade. His superior ability as a teacher and writer received increasing recognition from both his colleagues and his former students. His new position is that of Secretary of the National Association of Wool Manufacturers.

At the close of the year, Professor Edwin Francis Gay resigned the office of Dean of this School, his resignation taking effect on September 1, 1919. He had been Dean since the establishment of the School in 1908, and performed with honor to himself and the University the difficult task of organizing and formulating the policies of the first institution to give graduate, professional instruction in the principles of business. His administration was marked by wise foresight, vigorous activity, and disinterested devotion to the interests of the School. It is a fact unquestioned by any one acquainted with the history of the School that to Professor Gay primarily belongs the credit for the success attained by the School up to this time. Professor Gay severed his official connection with the University in order to accept the position of president of the New York Evening Post Corporation.

L. F. SCHAUB, *Acting Dean.*

THE SCHOOL OF ARCHITECTURE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit a report on the School of Architecture for the academic year 1918-19.

The registration was as follows:—

Regular students.....	17
Special students.....	10

This shows a gain of seven regular students and of five special students as compared with the year 1917-18. Only four of these students registered at the beginning of the year, the rest entering after the armistice.

Besides the graduate students, twenty-three different undergraduates took those of our courses which are open to them and their total registration was sixty-four.

The regular students were graduates of the following colleges and technical schools:—

California, University of.....	1
Columbia College.....	1
Harvard College.....	11
Louisville, University of.....	1
Massachusetts Institute of Technology.....	1
Minnesota, University of.....	1
Montevideo, University of.....	1

The enrolment of students in the several courses was as follows:—

Arch. 1a. Undergraduates.....	7	Arch. 3d ¹ . Graduates.....	2
Graduates.....	9	Arch. 3d ² . ".....	4
Arch. 1b. Undergraduates.....	7	Arch. 4a. Undergraduates.....	4
Graduates.....	7	Graduates.....	3
Arch. 1c. Undergraduates.....	7	Arch. 4b. ".....	6
Graduates.....	7	Arch. 4c. ".....	17
Arch. 2b. Undergraduates.....	17	Arch. 5a. ".....	8
Graduates.....	5	Arch. 5b. ".....	10
Arch. 2c. Undergraduates.....	17	Arch. 5c. ".....	3
Graduates.....	5	Arch. 6a. ".....	9
Arch. 3a. Undergraduates.....	5	Arch. 6b. ".....	4
Graduates.....	2	Arch. 6c. ".....	3
Arch. 3b. ".....	7	Arch. 8. ".....	7
Arch. 3c ¹ . ".....	12	Arch. 9. ".....	6
Arch. 3c ² . ".....	6	Arch. 10. ".....	5

The enrolment of students in the Summer School courses in architectural design in 1919 was as follows: —

S4a.....	16
S4b.....	2
S4c.....	5

The degree of Master in Architecture was granted in March, 1919, to

METRIC REYNOLD ROGER, A.B., 1915.

and in June, 1919, to

EDGAR WATERMAN ANTHONY, A.B., 1912.

KENNETH JOHN CONANT, A.B., 1915.

RUSSELL HAWES KETTELL, A.B., 1914.

CARL PETER TEIGEN, A.B. (*Univ. of Minnesota*), 1915.

The following fellowships and prizes were awarded: —

The medal of the American Institute of Architects for best work throughout his whole course to Kenneth John Conant, A.B. 1915, M. Arch. 1919.

A medal of the Société des Architectes Diplômés par le Gouvernement Français to Edward Alonzo Eames for best work in his final year.

Another medal of the above society to Ralph Brewerton Jenkins for best work in the Summer School courses in design.

The prize of the Boston Society of Architects for a competition in design for regular students to Frederick Stillman Kingsbury, S.B. 1914, and for special students to Edward Alonzo Eames.

The scholarships for special students (won by a competition in design) to

GEORGE FRANCIS AXT.

EDWARD ALONZO EAMES.

WILLIAM FREDERIC KUSSIN.

On account of war conditions the Julia Amory Appleton Traveling Fellowship was not offered for competition and the winners of fellowships in 1915, 1916, and 1917, further postponed their use.

The small registration anticipated led to the omission of three of the annual appointments which would ordinarily have been made, but even at the beginning of the year most of the courses of the School had to be given though the numbers were small. In January and during the following months the students kept returning and were put to work even though this involved starting some courses over again and coaching some late comers along to help them catch up. Some courses, therefore, had as many as three stages of the work in progress at the same time. It was

found necessary to carry on all the courses during the spring so the remaining staff took over the work of the absentees. The absent appointees, specialists in their lines, must however, be again used in normal years.

During the three months of the Students' Army Training Corps courses, Professor Killam taught a section in trigonometry, Professor Humphreys and Mr. Frost assisted in mechanical drawing, and Mr. Warren taught military sketching.

As reported previously, our students served during the war in engineering, camouflage, quartermaster's work, and in the various kinds of design, drafting, construction, and inspection for which their special training fitted them as well as in the combatant branches of the service which had more attraction for many of them.

The soldiers coming into the School after the armistice generally found it difficult at first to apply themselves seriously to their studies and to resume planning their work and assuming responsibility for results.

The accessions to the Library during the year and the totals at the end of the year were as follows: —

	Accessions	Totals
Books, bound periodicals, and bound pamphlets.	176	2,483
Unbound pamphlets.....	170	204
Lantern slides.....	57	9,585
Photographs.....	2,340	19,683

Joint problems in design between our School, the Department of Architecture at the Massachusetts Institute of Technology, and the Boston Architectural Club have continued throughout the year. These problems have served to stimulate the interest of all the students taking part and have given them means of comparing their work with that of students of other schools on the same problems. The problems have been judged by a common jury of representatives from the three staffs and the discussions at the judgments have been of great value to the instructors themselves.

Conferences between the staff of this School, of the Department of Architecture at the Massachusetts Institute of Technology, and practicing members of the profession have been held at intervals during the year to consider problems of teaching and have indicated a very gratifying interest of the profession in the subject of architectural education.

CHARLES W. KILLAM, *Chairman*.

THE SCHOOL OF LANDSCAPE ARCHITECTURE

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Chairman of the School of Landscape Architecture I have the honor to submit the following report for the academic year 1918-19.

Owing to the slow discharge of men from service, affecting not only former but also new students, our numbers for the year continued small though they were double those of the year preceding. Our total registrations were thirteen, besides two non-resident students on travelling fellowships, or fifteen in all. Of the thirteen, nine were regular students, candidates for our professional degree, and four were special students.*

The regular students and travelling fellows were graduates of the following colleges and universities: —

Harvard College	1
Imperial University, Kyoto, Japan	1
Iowa State College	1
Massachusetts Agricultural College	2
Western Reserve University (Adelbert College)	1
Pennsylvania State College	1
University of Illinois	1
University of Wisconsin	1
Williams College	1
Yale College	1
Total	11

Of these, five had already passed with credit, in the five different institutions from which they came, full undergraduate professional courses in Landscape Architecture; and one, Mr. Takashiro Takei, was the Municipal Engineer of Osaka, Japan, and came to us, as did others, for special work in town planning with the Chairman. Some were returned ex-service men — commissioned officers in the Infantry, Field Artillery, Marine Corps, Navy, and Aviation Corps. First Lieutenant Arthur H. Alexander, aviator, had received the Distinguished Service Cross awarded for heroic care for his companions when himself severely wounded. Already

* These figures differ from those in the University Catalogue for 1918-19 which omit one regular student who entered in June for our new course in Landscape Topography.

holding our professional degree, he returned, through the Federal Board for Vocational Education, for more advanced work in town planning.

The enrolments in courses were as follows:—

Land. Arch. 1.	Undergraduates.....	8	
	Graduates.....	6	14
Land. Arch. 2.	"		5
Land. Arch. 3.	"		3
Land. Arch. 4.	(Not given.).....		
Land. Arch. 5.	(Not given.).....		
Land. Arch. 6.	Graduates.....	6	
Land. Arch. 7.	"	6	
Land. Arch. 8.	(Not given.).....		
Land. Arch. 9.	Graduates.....	2	
Land. Arch. 10.	"	5	
Land. Arch. 11.	"	6	
Land. Arch. 12.	"	4	
Land. Arch. 20.	"	2*	
Summer Course.	Undergraduates.....	4	
	Graduates.....	7	11

Both travelling fellows were still in war service, and the postponement of their respective fellowships continued.

For the first time since the establishment of our professional degree, the year passed without its being granted.

Owing to the continued scarcity of sufficient available candidates, as shown by a canvass, the annual competition for the Charles Eliot Travelling Fellowship was again omitted, and, because of our small numbers in the School, our usual Trophy Competition also was not held.

As during the previous year, the resident staff was seriously reduced, Professor Hubbard continuing on leave of absence in Washington till May 1, and Major Pond being away throughout the year, both on technical war service. Professor Hubbard was Assistant Manager, at times serving as Acting Manager, of the Town Planning Division of the Bureau of Industrial Housing and Transportation (United States Housing Corporation) of the Department of Labor, and was later appointed Editor of volume II † of the comprehensive report on War Emergency Construction (Housing War Workers) embodying the results of the Bureau's

* Including a graduate of the Royal Technical Institute of Stockholm in Civil Engineering and of the University of Upsala, Mr. Nils Hamarstrand, who was registered in the Graduate School of Arts and Sciences as a candidate for the Ph.D. in Fine Arts and was, under the writer's direction, developing his thesis upon certain esthetic aspects of the plan of the City of Paris.

† Design of Housing Developments — Published July, 1919.

work and its conclusions from its intensive emergency experience. Thus, as in the year before, the courses given were, until May 1, carried by the Chairman and Mr. Hamblin, the Chairman himself not completing till shortly after the beginning of the academic year his service as Project Town Planner of United States Government towns for munition workers.

The members of the Council of the School for the year 1918-19 were as follows:—

JAMES STURGIS PRAY, A.B., Charles Eliot Professor of Landscape Architecture, and Chairman of the Council of the School of Landscape Architecture.

HENRY VINCENT HUBBARD, A.M., S.B., Assistant Professor of Landscape Architecture (on leave of absence until May 1).

BREMER WHIDDEN POND, S.B., M.L.A., Major, Q.M.C., U.S.A., Instructor in Landscape Architecture (on leave of absence throughout the year).

STEPHEN FRANCIS HAMBLIN, S.B., Instructor in Horticulture.

In June a new course in Landscape Topography, known as Landscape Architecture 12, was given by Mr. Hamblin, who also gave his course on Trees and Shrubs in the first session of the Harvard Summer School.

During the year our Librarian, Miss Kimball, continued her special war service as Consulting Librarian to the United States Housing Corporation, making frequent visits to Washington to direct the labors of her staff there. All new titles and references acquired for the Bureau continued to be duplicated for our special library, and many valuable accessions, particularly in the field of town planning and reconstruction, were obtained for us through this service. The year's accessions to our various collections, and the totals of these collections at the end of the year, were as follows:—

	Accessions	Totals
Books and continuations	191	2,336
Pamphlets	140	1,832
Maps and plans, including those deposited indefinitely by the American Society of Landscape Architects, approx.	350	3,350
Photographs, approx.	75	4,475
Postcards, approx.	100	13,800
Lantern slides	0	4,456
Models	0	5

During the year Miss Kimball compiled, annotated, and edited a "Selected Bibliography of Industrial Housing in America and Great Britain during and after the War," later reprinted in the United States Housing Corporation's Report above noted.

The varied technical experience, during the war, in different parts of the field of Town Planning, which members of our staff had had, had equipped them further for instruction and for guiding research in this field; moreover, the Government's important recognition of the value of Town Planning to the welfare of communities, as well as its recognition of the fundamental relations of the landscape architect's training to that service, and the pressing immediate demand for the wise planning of industrial communities, convinced us that the time had come when we were called upon, both in our service to the University and in our service to our profession, to recognize, in our offerings for the following year, to a distinctly greater degree than up to that time, the demand for Town Planning instruction; and we sought the authority and aid of the President and Fellows for this further needed development of our instruction; but we were informed that the means would not be available, and, although we had formulated a definite plan, we were obliged to postpone its public announcement, pending a considerable increase of available resources.

JAMES STURGIS PRAY, *Chairman.*

THE BUSSEY INSTITUTION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Bussey Institution I have the honor to present the following report for the year 1918-19.

Although the war continued to restrict the attendance at the Bussey Institution ten graduate students registered during the year. The general course, designated as "Genetics and Eugenics," which usually attracts a considerable number of students, was not given. The attendance on the other courses was as follows:—

Zoölogy	7a (Morphology and Classification of Insects) . . .	3
"	7c (Practical Entomology)	4
"	20f (Research in Economic Entomology)	5
"	20h (Forest Entomology)	1
Botany	15 (Economic Botany)	1
Forestry	20a (Research in Dendrology)	2
"	20b (Research in Silviculture and Forest Management)	1
Total		17

At Commencement, 1919, the degree of Master of Forestry was conferred on Mr. Woon Young Chun, and the degree of Doctor of Science on Mr. Clell Lee Metcalf. Mr. Metcalf's thesis entitled "The Genitalia of Male Syrphidæ: Their Morphology and Taxonomic Significance," embodies the results of a long and very painstaking anatomical study and will greatly aid in the delimitation of taxonomic categories in a large and difficult family of insects.

The following scholarships were held by students in the Bussey Institution: one half of the Bliss Scholarship by Mr. W. Y. Chun, the other half by Mr. A. H. Richardson, the Anna C. Ames Scholarship by Mr. A. C. Kinsey, the George H. Emerson Scholarship by Mr. C. L. Metcalf, and the University Scholarship by Mr. R. J. Dobson. The Priscilla Clark Hodges Scholarship was assigned to Mr. G. C. Wheeler, but owing to detention in the army he was unable to register at the Institution till the autumn of 1919.

Two Sheldon Travelling Scholarships were assigned to Bussey students, one to Mr. Chun to enable him to continue his studies on East Asiatic trees in China, and one to Mr. Kinsey to enable him to complete his studies on the gall wasps (Cynipidæ) in the southern and western states. Mr. Chun, with the aid of additional

funds contributed by several naturalists, has headed an expedition into southwestern China and plans to return to the Arnold Arboretum to work up the materials collected. Mr. Kinsey has already made progress in his studies of the oaks and their galls in the Alleghanies.

A considerable amount of research work has been done by the Bussey staff and students during the year. Professor Castle has published several papers on genetics and has continued his observations and experiments on the herd of dairy cattle of the late Mr. T. J. Bowlker at South Framingham. The herd has been purchased recently by the University of Illinois in order that the work may be continued by Professor J. A. Detlefsen who took his doctor's degree at the Bussey Institution and is at present the professor of animal genetics at that University. Professor East has in press an important book on "Inbreeding and Outbreeding," which he has written in collaboration with Dr. D. F. Jones, who took his doctor's degree at the Bussey Institution and is at present in charge of plant breeding at the Connecticut Agricultural Experiment Station at New Haven. Professor Ames has continued his research work on the Orchidaceæ and on the valuable collection of economic plants which he generously donated to the Institution a year ago. One of our greatest needs is for more ample space in which to preserve and display this collection. Professor Bailey completed during the year a paper on the African myrmecophytes for publication in the American Museum of Natural History Volume on the ants of the Belgian Congo. The results obtained by Professor Bailey on the minute structure of the plant organs inhabited by the various ants and their Coccid protégés form the basis for a new conception of myrmecophytism. Professor Brues has contributed several important papers on parasitic Hymenoptera. Dr. R. W. Glaser spent the winter of 1918-19 in Florida working on the diseases of Citrus insects, and the summer at Woods Hole on the artificial cultivation of blood and other tissues after their removal from the bodies of insects. My own work has been a continuation of my ant studies. The most voluminous of these is a monograph of the Formicidæ taken by the Expedition of the American Museum of Natural History to the Belgian Congo and was nearly completed during August.

In conclusion I beg leave to include Professor Fisher's report on the work carried on under his supervision in the Harvard Forest at Petersham.

WILLIAM MORTON WHEELER, *Dean.*

REPORT ON THE HARVARD FOREST

On the organized forests of Europe it has been customary to revise the figures upon which the management is based once in ten years. This period having now elapsed since work began at Petersham, it is timely to make a summary not only of results in respect to accomplishments on the Forest itself, but also as regards research and the professional progress of graduates.

The job of revising the working plan is now nearing completion. It involves remapping the whole tract so as to show, for comparison with the conditions of ten years ago, the location, area, and age, of each forest type (or kind of growth). Additional computations furnish the present total volume of standing timber and the amount of wood increment now annually produced by the whole Forest. Final figures are not yet ready but the following are approximate statements of results: by the planting of eighty (80) acres of waste or vacant land, and improvement cutting on about one hundred and twenty (120) acres of inferior young growth, two hundred (200) acres of productive forest have been added to the property. Since ninety per cent of all areas from which mature timber has been cut have been satisfactorily reproduced to young crops, this means that without impairing the forest capital, the total annual wood production has been increased by at least seventy-five thousand (75,000) board feet.

Financially, the Forest has been self-supporting. A loan of four thousand dollars (\$4000) for initial operating expenses has been repaid, equipment, including horses, machinery, tools, etc., has been bought and maintained, and the upkeep of the dormitory and headquarters building has been met. A small surplus also has recently been available for experimental work and permanent improvements in the Forest. A great many expenses have to be provided for that are not properly chargeable to the woods operations; if these are deducted, the average net income would be from two to three thousand dollars a year.

As regards contributions to the knowledge of forestry, the Harvard Forest is beginning clearly to show the fruits of that continuity of experience which is essential to sound conclusions. Aside from a number of investigations of special problems, the results of many of which have already been published, the chief aim has been to find out by actual test the most effective and practical means of renewing a forest crop. Until such a method is defined

and proved, for each region of similar forest conditions, the adoption of forestry by private owners cannot be looked for. Ten years of experimental work in Petersham have produced a scheme of cuttings that is successful and reasonable in cost; and the Federal Forest Service, now making a special effort to stimulate forestry among timberland owners, has asked for a statement of methods and results in use on the Harvard Forest. This material will shortly be published under the title, "The Management of Second Growth White Pine in Central New England."

Investigative work now being conducted by students at the Forest relates to the following problems: the yield of second growth hardwood timber; the results of forest planting in New England; the life history of a destructive snout beetle, *Hylobius pales*. In all of these studies much of the material, hitherto unused, has accumulated incidentally to the recorded operations on the Forest.

The progress of former students in their professional work has shown not only the value of an organized forest as a training ground, but also the added importance of the research which has now replaced the general course. The distribution of employment among the graduates indicates the result of the special emphasis which has been placed upon the use of the Forest as a laboratory. Nearly half of these graduates are in the service of lumber companies or in consulting work; the rest are employed by the United States Forest Service, State Departments, Forest Schools, and City Governments. Of the Harvard foresters who enlisted for service in the Forestry regiments in France, nearly all were detailed to the important Department of Acquisition which located the logging operations in advance for the saw mills. Those men who have taken the specialized work of the last three years have all obtained notably better paid and more responsible positions at the start than did the graduates under the old plan. At the beginning of 1918, men who got their training at Petersham were collectively in charge of approximately five million acres of timber land in the United States.

During the past summer an important piece of protective work was carried out on the Forest. In view of the possible spread of the White Pine Blister Rust, the Federal Government, the State Department of Agriculture, and the Harvard Forest cooperated to eradicate from the woods all currant and gooseberry plants which are the alternate hosts of the disease. A fund of \$2000 was appropriated for the work, \$1000 from the Government, \$500 from the

State, and \$500 from a donation on behalf of the Harvard Forest. The fieldwork was in charge of C. C. Perry, M. F. 1914. At the close of the season the eradication had been completed over the whole of the Harvard land, which is thus reasonably insured against extensive infection.

R. T. FISHER, *Director.*

THE DIVINITY SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Divinity School, I have the honor to present the following report for the year 1918–19.

The year began with a registration of seventeen students, ten of whom were Resident Graduates. Of these, however, four withdrew during the first half-year, but after the signing of the armistice five new students were enrolled and four more entered at the beginning of the second half-year. Thus the total enrolment for the year is twenty-six, of whom, however, only thirteen were in residence during the entire year.

The war record of the School is creditable. Out of our small number of students and alumni, we know definitely of twenty who were in service as chaplains and officers of the line, and twenty-nine who were engaged in the Red Cross, the Young Men's Christian Association and other forms of war work. Unhappily, none of our undergraduates who left to join the army have returned to the School, all, with perhaps a single exception, having turned to other vocations.

There were bad gaps in our schedule of courses due to the engagement of Professor Ropes in the Office of the State Committee of Food Conservation, and the absence during the first half-year of Professors Foote and Lake and of Professor E. C. Moore in the second half-year; but thanks to the assistance of Andover and the Episcopal School there was no serious interruption in the work of the students.

At the beginning of the year the Government took possession of Divinity Hall for the use of the Radio School as it had previously taken over Divinity Library for the same purpose, but the most generous and highly appreciated hospitality of Andover provided rooms for such of our students as would normally have occupied the Hall, and its class-rooms were freely opened for our use. Our office also remained in the Andover building throughout the year. The exceeding friendliness of Andover demands grateful recognition beyond the formal vote of thanks, and because of it the two schools have been brought into even closer and more intimate relations.

The appointment of Professor Lake to the Winn Professorship of Church History, left vacant by the retirement of Professor Emerton, was warmly welcomed and has led to a reorganization

of the work in this Department which provides for a closer coöperation of the three schools and offers opportunity for more intensive work by qualified students in the field of Church History. The purpose of the affiliation to prevent, so far as possible, duplication of courses and thus to offer students larger opportunities of election, is being fulfilled as rapidly as circumstances permit.

The death of Dean Hodges near the close of the academic year was a grievous loss to the schools. It was on his initiative that the affiliation of the Episcopal School was effected, and his wise and genial influence contributed much to its success. It is earnestly hoped that his successor, whoever he may be, will perpetuate his sympathy with our associated work.

The total enrolment for the year was as follows:—

Resident Graduates.....	13	
Senior Class.....	1	
Middle Class.....	1	
Junior Class.....	6	
Unclassified Students.....	5	
	—	26
Andover Students.....	18	
Episcopal Theological School Student.....	1	
Boston University School of Theology Students.....	2	
Newton Theological Institution Students.....	4	
	—	25
Total.....		51

Thirty-four colleges were represented as follows:—

Acadia University.....	2	Morningside College.....	1
Bates College.....	1	Mt. Allison University.....	1
Baylor University.....	1	Muhlenberg College.....	2
Bethany College.....	1	New College, Oxford.....	1
Bombay University.....	1	Northwestern University.....	1
Boston University.....	2	Queen's University.....	1
Bowdoin College.....	2	Southwestern University.....	1
Brown University.....	1	St. Stephen's College.....	1
Capital University, Columbus, O.	1	University of California.....	1
Carson-Newman College.....	1	University of Chicago.....	2
Clark University.....	1	University of Minnesota.....	1
Columbia University.....	2	University of Southern California ..	1
Dubuque College.....	1	Wesleyan University.....	1
Harvard University.....	10	Williams College.....	1
Indiana University.....	1	Yankton College.....	1
Imperial University of Tokyo....	1		—
La Salle University.....	1		49
Macalester College.....	1	Counted more than once.....	15
Madras University.....	1		—
			34

Eleven theological seminaries were represented by graduates as follows: —

Andover Theological Seminary . . .	4	Newton Theological Institution . .	5
Episcopal Theological School . . .	2	Pacific School of Religion	1
Hartford Theological Seminary . .	1	Union Theological Seminary	1
Harvard University	2	Yale School of Religion	1
Lutheran Theological Seminary, Columbus, O.	1		—
Lutheran Theological Seminary, Mt. Airy, Pa.	1	Counted more than once	10
Meadville Theological School . . .	2		—
			11

The interchange of instruction between the Faculty of the School and the Faculty of Arts and Sciences indicates the extent of the contribution made by the Divinity School to the general work of the University. The interchange between the two Faculties in 1918-19 was as follows: —

Divinity students, including Andover, the Episcopal Theological School, Boston University School of Theology, and Newton Theological Institution students, electing courses offered primarily by the Faculty of Arts and Sciences: —

	Total	H.D.S.	And.	E.T.S.	B.U.	N.T.I.
Economics	5	0	1	0	0	4
Education	1	1	0	0	0	0
English	1	1	0	0	0	0
Government	1	0	0	0	0	1
Greek	1	1	0	0	0	0
History	1	1	0	0	0	0
Indic Philology	3	1	2	0	0	0
Mathematics	1	1	0	0	0	0
Military Geology	1	1	0	0	0	0
Philosophy	11	5	5	0	1	0
Psychology	3	2	0	0	1	0
Social Ethics	1	0	0	0	0	1
Spanish	1	1	0	0	0	0
French	1	0	1	0	0	0
	—	—	—	—	—	—
	32	15	9	0	2	6

Non-Divinity students electing courses offered primarily by the Divinity School: —

	Total	Grads.	Undergr.	Special
Old Testament	21	7	14	0
Church History	2	2	0	0
History of Religions	2	2	0	0
	—	—	—	—
	25	11	14	0

The interchange of instruction between the Harvard Divinity School and Andover Theological Seminary was as follows:—

Harvard Divinity students electing courses offered primarily by Andover Theological Seminary:—

Old Testament	2
Church History	9
Theology	5
Homiletics	2
	<hr/> 18

Andover students electing courses offered primarily by the Divinity School:—

New Testament	8
Church History	3
History of Religions	15
Homiletics	7
Theology	14
Public Speaking	5
	<hr/> 52

The interchange of instruction between the Harvard Divinity School and the Episcopal Theological School was as follows:—

Harvard Divinity students electing courses offered primarily by the Episcopal Theological School:—

Old Testament	1
New Testament	1
	<hr/> 2

Episcopal Theological School students electing courses offered primarily by the Divinity School:—

History of Religions	1
Theology	1
	<hr/> 2

Newton Theological Institution students electing courses offered primarily by the Divinity School:—

Church History	1
History of Religions	1
Theology	1
Social Ethics	1
	<hr/> 4

The following is a list of the courses of instruction offered by the School in the year 1918-19. With each course is a statement of the number of students electing it from the Divinity School, Andover

Theological Seminary, the Episcopal Theological School, Boston University School of Theology, Newton Theological Institution, the Graduate School of Arts and Sciences, and Harvard College. In the courses given in the affiliated schools and taken only by students in those schools, no record of attendance is given. No record is made in cases where a student registered primarily in Andover or the Episcopal School enrolled for a course in the other institution without registration in the Harvard Divinity School.

COURSES OF INSTRUCTION

OLD TESTAMENT

- E1. Professor KELLNER. — Hebrew for Beginners. 1 Div., 1 Coll.
2. Professor LYON. — Hebrew (second course). — Syntax. Extensive reading in the Old Testament. 2 Div., 1 Gr., 4 Coll.
- E2¹hf. Professor KELLNER. — Hebrew. Exegetical study of the prophet Isaiah-ben-Amoz. *Half-course (first half-year)*.
4. Professor LYON. — The Old Testament, with special reference to the History and the Literature of Israel. 1 Div., 7 Coll.
- E4¹hf. Professor KELLNER. — Hebrew. Sight-reading in Genesis, Deuteronomy, Kings, Jonah, Ruth, and Esther. *Half-course (second half-year)*.
- E5a¹hf. Professor KELLNER. — Old Testament Introduction: The Prophetical Books, the Poetical Books, and the Wisdom Literature. *Half-course (first half-year)*.
- E5b¹hf. Professor KELLNER. — Old Testament Introduction: The composition of the Hexateuch; the Historical Books, and the Moral Tales. *Half-course (second half-year)*.
- A6. Professor ARNOLD. — Religion of Israel. — History of the religious ideas and institutions of Israel from the earliest times to the Maccabean age. 2 Div., 2 Gr., 11 And.
- A7. Professor ARNOLD. — Hebrew: The Poetry of the Old Testament. 1 Coll.
10. Professor LYON. — Assyrian.
11. Professor LYON. — Assyrian (second course).
13. Professor JEWETT. — Arabic. — Socin's Grammar; Brünnow's Chrestomathy. 1 Gr.
- 14P. Professor JEWETT. — Arabic (second course). — De Goeje's edition of Wright's Grammar; selections from the Qoran, the Hadith, and classical writers on geography and history.
17. Dr. WOLFSON. — Jewish Aramaic. — The Aramaic portions of Daniel and Ezra; inscriptions and papyri; selections from the Targums; Marti's Biblisch-Aramäische Grammatik; Staerk's and Ungnad's editions of the Aramaic papyri of Elephantine; Dalman's Aramäische Dialektproben.

18. Professor JEWETT. — Syriac. — Brockelmann's *Syrische Grammatik*; selections from the Peshitto. 2 Div., 1 Gr.
19. Professor JEWETT. — Syriac (second course). — Nöldeke's *Syriac Grammar*; Selections from Syriac prose of the classical period.
- A20. Professor ARNOLD. — Research Course: Old Testament Problems.
- 20a. Professor LYON. — Assyrian. Unpublished Inscriptions. 1 Gr.
- 20b. Professor JEWETT. — Arabic. — Sources for the History of the Crusades. 1 Gr.

NEW TESTAMENT

A. Introductory Course

1. The New Testament.
- (a) Professors HATCH and ROPES. — The Books of the New Testament. (*First half-year*). 1 Div., 2 And.
- (b) Professor HATCH. — The Ideas of the New Testament. (*Second half-year*). 1 Div., 3 And.
- E2 ¹/₂f. Professor HATCH. — The Gospel according to Mark. *Half-course* (*first half-year*).
- E3 ³/₄f. Professor HATCH. — The Apostolic Age. *Half-course* (*second half-year*).
- E4 ¹/₂f. Professor HATCH. — The Fourth Gospel. *Half-course* (*first half-year*).
- 8². Professor ROPES. — Epistles of Paul. *Half-course* (*second half-year*). 3 Div.
- 15¹. Professor FENN. — The Theological Method of Jesus and Paul. *Half-course* (*first half-year*). 1 Div., 3 And.

CHURCH HISTORY

- A1. Professor PLATNER. — History of the Church in Outline. 2 Div., 1 Gr., 9 And.
- E1. Professor WASHBURN. — The History of the Church and of Doctrine during the first ten centuries.
- A3. Professor PLATNER. — Christian Institutions, historically and comparatively considered. 5 Div., 1 Gr., 1 And.
- E3 ¹/₂f. Professor WASHBURN. — The English Church, the English State, and the Papacy from the beginning to the Reformation. *Half-course* (*first half-year*).
- E4 ³/₄f. Professor WASHBURN. — Four English Churchmen. *Half-course* (*second half-year*).
5. Professor GEORGE F. MOORE. — History of Christian Doctrine. 4 Div., 1 And., 1 Coll.
- A5 ¹/₂f. Professor PLATNER. — History of the Church in America. *Half-course* (*first half-year*).
- 6 ³/₄f. Professor LAKE. — History of Early Christian Literature outside of the New Testament. *Half-course* (*second half-year*). 2 Div., 1 And.
- A9 ³/₄f. Professor PLATNER. — Modern Foreign Missions. *Half-course* (*second half-year*). 1 Div., 3 And.

- 10a ¹/_{hf}. Professor EDWARD C. MOORE. — The Expansion of Christendom and the Naturalization of Christianity in the Orient, more particularly during the nineteenth century. *Half-course (first half-year)*.
1 And., 1 N.T.I.
- 10b ²/_{hf}. Professor EDWARD C. MOORE. — The Expansion of Christendom and the Naturalization of Christianity in the Orient, more particularly during the nineteenth century. *Half-course (second half-year)*.
- A20. Professor PLATNER. — Seminar work. 1 Div., 1 And.
- 20b. Professor LAKE. — Documents of the Early Church.

HISTORY OF RELIGIONS

- 2 ¹/_{hf}. Professor G. F. MOORE. — History of Religions. Buddhism and Christianity. *Half-course (first half-year)*. 4 Div., 3 And., 1 N.T.I.
- 9 ²/_{hf}. Professor LAKE. — The Beginnings of Christianity. *Half-course (second half-year)*. 11 Div., 10 And., 2 Gr., 1 E.T.S.
- 10 ¹/_{hf}. Professor G. F. MOORE. — The Religion of Educated Men in the First Centuries of the Christian Era and their Attitude toward Christianity. *Half-course (first half-year)*. 4 Div., 2 And., 2 Coll.
20. Professor GEORGE F. MOORE. Seminar work. 3 Div.

THEOLOGY

- 1 ¹/_{hf}. Professor FENN. — Theism. *Half-course (first half-year)*.
9 Div., 3 And., 1 N.T.I.
- E1 ¹/_{hf}. Professor DROWN. — Apologetics; Philosophy of Religion, and the Defence of the Christian Faith. *Half-course (first half-year)*.
- 2 ¹. Professor FENN. — Outlines of Systematic Theology. (*Second half-year*). 8 Div., 2 And.
- A2. Professor EVANS. — Systematic Theology. The Distinctive Truths of Christianity. 1 Div., 6 And.
- E2 ²/_{hf}. Professor DROWN. — The System of Christian Doctrine, begun. *Half-course (second half-year)*.
- 3 ¹/_{hf}. Professor FENN. — New England Theology. *Half-course (first half-year)*. 2 Div., 1 And.
- A3 ²/_{hf}. Professor EVANS. — Christian Ethics. *Half-course (second half-year)*. 3 Div., 3 And.
- E3 ¹/_{hf}. Professor DROWN. — The System of Christian Doctrine, continued.
- E4 ¹/_{hf}. Professor DROWN. — Christian Ethics. *Half-course (second half-year)*.
- A5 ¹/_{hf}. Professor EVANS. — The Psychology of Religion. *Half-course (first half-year)*. 4 Div., 3 And.
- 6 ¹/_{hf}. Professor EDWARD C. MOORE. — History of Christian Thought since 1630. *Half-course (first half-year)*. 4 Div., 1 And.
- E6 ¹/_{hf}. Professor DROWN. — A Historical Study of the Doctrines of the Atonement and of Justification. *Half-course (first half-year)*. Seminar, once a week.
- 7a ¹/_{hf}. Professor EDWARD C. MOORE. — Philosophy of Religion. *Half-course (first half-year)*. 2 Div., 2 And., 2 B.U., 4 Coll.

- 8¹*hf.* Professor FENN. — Current Problems in Theology. *Half-course* (second half-year). 5 Div., 5 And., 1 B.U.
- 20d¹*hf.* Dr. LAPIANA. — Thomas Aquinas' Ethics. Historical survey of the moral doctrines of Scholastic Philosophy and of the scholastic systematization of Moral Theology. *Half-course* (first half-year). 5 Div., 1 E.T.S.
- 20e¹*hf.* Dr. LAPIANA. — The Moral System of Roman Catholicism. History of moral doctrines in the philosophy and theology of the Roman Catholic Church from the fifteenth century to the present day. *Half-course* (second half-year).

SOCIAL ETHICS

1. Professors FOERSTER and FORD. — Social Problems and Social Policy (introductory course). — Lectures, prescribed reading, thesis. 1 N.T.I.
- 2¹*hf.* Asst. Professor FORD. — Poor Relief. Lectures, prescribed reading, and fieldwork. *Half-course* (second half-year).
- 4¹*hf.* Asst. Professor FOERSTER. — American Population Problems; Immigration and the Negro. — Lectures, prescribed reading, and a research. *Half-course* (first half-year).
- 5¹*hf.* Asst. Professor FORD. — The Housing Problem. — Lectures, prescribed reading, and research. *Half-course* (first half-year).
- 6¹*hf.* Asst. Professor FOERSTER. — Unemployment and Related Problems of the Working Classes, with special reference to Social Insurance. — Lectures and prescribed reading. *Half-course* (second half-year).
- 7¹*hf.* Asst. Professor FORD. — Rural Social Development. — Lectures, prescribed reading, and a thesis. *Half-course* (second half-year).
- 15¹*hf.* Asst. Professor FOERSTER. — Recent Theories of Social Reform. *Half-course* (first half-year).
- 18¹*hf.* Asst. Professor FOOTE. — The Minister's Relation to Social Agencies. *Half-course* (second half-year).

HOMILETICS AND PASTORAL CARE

- A1. Asst. Professor WILLARD W. SPERRY. — The Minister as a Preacher. *Full course.* 2 Div., 7 And.
- E1. Professor HODGES. — The English Bible.
2. Asst. Professor FOOTE. — Preaching. 1 Div., 7 And.
- E2¹*hf.* Professor HODGES. — The History and Use of the Book of Common Prayer. *Half-course* (first half-year).
- E3¹*hf.* Professor HODGES. — Pastoral Care. *Half-course* (second half-year).
- E4. Professor HODGES. — Preaching.
- 7². Asst. Professor FOOTE. — Hymns and Hymn Writers of the Christian Church. *Half-course* (second half-year). 1 Div.
- A11. Dr. DAVISON. — The History and Development of Church Music.
- A12¹*hf.* Dr. DAVISON. — The Conduct of Church Music. *Half-course.* 3 And.
- A13. Dr. DAVISON. — Hymn Tunes and their History.
- E. Mr. APPEL. — Choral Singing 1.

- E.** Mr. APPEL. — Choral Singing 2.
E. Mr. APPEL. — Choral Singing 3. — Masterpieces of Sacred Music.
E. Mr. APPEL. — Organ Playing.

PUBLIC SPEAKING

- 1.** Associate Professor WINTER and assistant. Training the Voice and Speech. 2 And.
2 hf. Associate Professor WINTER and assistant. Sermon Delivery, Scripture Reading, Oral Discussion. *Half-course throughout the year.* 1 Div., 3 And.
E1. Associate Professor WINTER, assisted by Mr. APPEL. — Fundamentals of Speaking and Reading.
E2. Associate Professor WINTER assisted by Mr. APPEL. — Sermon Delivery and Scripture Reading.

During the past year there were added to the Andover-Harvard Library, 874 volumes and 1,116 pamphlets by purchase, and 399 volumes and 2,492 pamphlets by gift, making the total of books in the combined libraries 111,806 and of pamphlets 60,978. Of these additions there are credited to the Harvard Divinity School by purchase 450 volumes and 653 pamphlets, and by gift 91 volumes and 800 pamphlets, making the total of books belonging to the Harvard Divinity School and contained in the Andover-Harvard Library, 43,749 and of pamphlets 17,908. These totals include 16 books and 30 pamphlets transferred from the Harvard College Library.

W. W. FENN, *Dean.*

THE LAW SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to present my report upon the Law School for the academic year 1918–19.

At the opening of the year, the war being still in progress, only seventy students were in attendance, all of whom were physically unfit for service in connection with the war. But for reasons set forth in my report last year, it seemed our duty to preserve the continuity of the school's work and to keep the school ready to resume the orderly conduct of its teaching with unimpaired efficiency. To do this it was necessary to call upon those of the Faculty who were in residence to carry much extra teaching — in some cases double that regularly assigned to them — and to call upon the Thayer Teaching Fellow to do the regular work of a professor. Everyone responded cheerfully to this call and the event amply justified the policy of continuing the work of the school substantially upon its ordinary footing. The armistice supervening set free a number of students, and in order to accommodate those whose records indicated that they might properly enter at so late a date, the last date for registration was extended from November 1 to December 1. Thus, some fifty-eight students were permitted to enter late, and, with a few exceptions, they justified the judgment of the Faculty by completing the year's work with credit.

December 1 was the latest date at which students could be admitted to the regular session consistently with the maintenance of proper standards. Yet it was manifest that large numbers of students would be released from service during the winter and spring for whom provision ought to be made, if possible. A summer session, offering but a fraction of the work of a regular session, or attempting to do in ten or twelve weeks the work usually done in particular courses in thirty-eight weeks, was not in accord with the policy or traditions of the school. Accordingly, it was resolved to conduct a special session to meet the needs of students discharged from military or naval service too late to enter the regular session, which should offer the same number of lectures as the regular session, should be conducted so far as possible by the regular teaching staff, and should involve the same opportunities as

the regular session. This special session was conducted parallel with the regular session from February to June, and was continued until the end of August. Three hundred and seven students took advantage of this session, and many more who sought to do so were debarred by a rule fixing March 1 as the last date for registration, rendered necessary by the heavy schedule required in order to do a full year's work thoroughly in the time available.

Early in the regular session, Professor Manley O. Hudson, who upon the death of Professor Westengard had been appointed lecturer for the year, was called upon to go to France in connection with the Commission to Negotiate Peace. He was given leave of absence for the remainder of the year. The third-year course in Property was taken over by Guy Newhall, Esq. (LL.B. 1901), to whom acknowledgment is due for the zeal and ability with which he performed a difficult task under the handicap of taking it up on short notice after another had begun it.

As four members of the teaching force were absent on leave in public service, it became necessary to appoint two lecturers for the special session. By good fortune we were able to secure Dr. Morton Carlisle Campbell, Professor of Law in the University of Indiana, who was discharged from military service but a few days before the opening of the session, and Dr. Francis Bowes Sayre. Dr. Campbell graduated (A.B. 1896) from Washington and Jefferson College and (LL.B. *cum laude*, 1900) from Harvard Law School. After some years in the practice of law, he returned to the Law School in 1914, and received the degree of S.J.D. with distinction in 1915. Thereafter he was Professor of Law in Tulane University and later became Professor of Law in the University of Indiana. At the outbreak of the war he entered an officers' training camp and was commissioned major. In the special session he gave the courses in Evidence and in Suretyship and Mortgage. Dr. Sayre graduated (A.B. 1909) from Williams College and (LL.B. *cum laude*, 1912) from Harvard Law School. In 1916 he returned to the school and in 1917 took the degree of S.J.D. with distinction. He gave half of the course in Constitutional Law in the regular session and the whole of that course in the special session. Special acknowledgment is due to Dr. Campbell, Dr. Sayre, and Dr. Thompson, the Thayer Teaching Fellow, for undertaking difficult courses on short notice and conducting them with conspicuous success under many difficulties.

For the special session of 1918-19 and the regular session of 1919-20, a modification of the entrance requirement was made,

Year	Whole No. of Students	Total of College Grad- uates	Harvard Grad- uates	Grad- uates of other Colleges	Non- Grad- uates	Per cent of College Grad- uates	No. of Col- leges rep- resented	Degrees con- ferred
1870-71	165	77	27	50	88	47	27	
1871-72	188	70	34	36	68	51	25	
1872-73	117	66	34	32	51	56	25	
1873-74	141	86	49	37	55	61	25	
1874-75	144	82	63	19	62	57	18	
1875-76	173	93	60	33	80	54	25	
1876-77	199	116	74	42	83	58	30	
1877-78	196	121	80	41	75	62	30	
1878-79	169	109	71	38	60	64	24	11
1879-80	177	118	90	28	59	66	20	18
1880-81	161	112	82	30	49	70	19	18
1881-82	161	99	66	33	62	61	22	33
1882-83	138	93	58	35	45	67	32	19
1883-84	150	105	75	30	45	70	25	24
1884-85	156	122	85	37	34	78	31	18
1885-86	158	122	83	39	36	77	29	18
1886-87	188	143	88	55	45	76	34	26
1887-88	225	158	102	56	67	70	32	33
1888-89	225	158	105	53	67	70	32	28
1889-90	262	189	122	67	73	72	41	48
1890-91	285	200	135	65	85	70	33	46
1891-92	370	257	140	117	113	69	48	55
1892-93	405	266	132	134	139	66	54	69
1893-94	367	279	129	150	88	76	56	81
1894-95	413	310	139	171	103	75	74	92
1895-96	475	380	171	209	95	80	82	104
1896-97	490	408	186	222	82	83	82	103
1897-98	551	490	229	261	61	89	77	131
1898-99	564	503	212	291	61	89	78	110
1899-00	613	557	236	321	56	91	67	127
1900-01	655	605	252	353	50	92	83	137
1901-02	633	584	247	337	49	92	92	148
1902-03	644	600	241	359	44	93	94	157
1903-04	743	695	272	423	48	94	111	172
1904-05	766	711	286	425	55	93	114	170
1905-06	727	716	295	421	11	98	118	186
1906-07	705	696	260	436	9	99	126	184
1907-08	719	712	276	436	7	99	122	162
1908-09	690	680	256	424	10	99	121	174
1909-10	765	759	257	502	6	99	127	193
1910-11	790	778	240	538	12	98	135	181
1911-12	809	796	216	580	13	98	145	196 ¹
1912-13	745	733	184	549	12	99	134	177 ²
1913-14	696	693	176	517	3	99	139	162 ³
1914-15	780	725	187	538	5	99	144	146 ³
1915-16	791	786	220	566	5	99	145	174 ⁴
1916-17	857	852	210	642	5	99	155	190 ³
1917-18	297	294	72	222	3	99	90	67 ³
1918-19	128	127	38	89	1	99	53	35 ³
Feb. '19- Aug. '19	307	285	47	238	22	93	100	67
1919-20	878	859	214	645	18	98	155	

¹ One of this number received the degree of S.J.D., the remainder that of LL.B.² Two of this number received the degree of S.J.D., the remainder that of LL.B.³ Three of this number received the degree of S.J.D., the remainder that of LL.B.⁴ Six of this number received the degree of S.J.D., the remainder that of LL.B.

Instructors	Studies and Text-books	Exercises per week	Number of students examined						
			1st year	2d year	3d year	Unclas- sified	Special	Out of Course	Gradu- ates
First Year									
Prof. Scott	Civil Procedure at Common Law. Scott's Cases on Civil Procedure . .	2	27	2	1	5	1	2	
Prof. Williston	Contracts. Williston's Cases on Contracts	3	28		2	4		3	
Prof. Beale	Criminal Law. Beale's Cases on Criminal Law (3d ed.)	14	26	3		5	1	2	
Prof. Beale	Principles of Liability. Beale's Cases on Liability	14	27	3	2	7		2	
Prof. Edward H. Warren	Property. Warren's Cases on Property	2	27	3	3	14	1	6	
Prof. Pound	Torts. Cases on Torts: Ames and Smith (Pound's ed.)	2	27	1		5		5	
Second Year									
Prof. Joseph Warren	Agency. Wambaugh's Cases on Agency	2	13	4	4	4	1	3	
Asst. Prof. Chafee	Bills and Notes. Ames's Cases on Bills and Notes and Brannan's Negotiable Instruments Law (2d ed.)	2	19	3	2	2		2	2
Prof. Pound	Equity. Ames's Cases on Equity Jurisdiction, vol. 1	2	32	1	6			2	
Prof. Edward H. Warren	Evidence. Thayer's Cases on Evidence (2d ed.)	2	33	2	2	8	1	5	
Prof. Joseph Warren	Property. Gray's Cases on Property, vol. 3; Warren's Cases on Wills and Administration	2	32		2	6		4	
Mr. Thompson	Public Utilities. Beale's Cases on Carriers (2d ed.). Wyman's Cases on Public Service Companies (2d ed.). Frankfurter's Cases under the Interstate Commerce Act	2	1	15	2	5	1	3	
Prof. Williston	Sales of Personal Property. Williston's Cases on Sales (2d ed.)	2	32	2					
Prof. Scott	Trusts. Ames's Cases on Trusts (2d ed.); Scott's Cases on Resulting and Constructive Trusts	2	31	7	4			2	1
Prof. Joseph Warren	Persons. Smith's Cases on Persons	1	1	5	3			1	

Third Year

Prof. Beale	Conflict of Laws. Beale's Cases on the Conflict of Laws	2				4	1
Prof. Pound and Mr. Sayre	Constitutional Law. Wambaugh's Cases on Constitutional Law	2				2	
Prof. Edward H. Warren	Corporations. Warren's Cases on Private Corporations (2d ed.)	2				3	
Asst. Prof. Chafee	Equity. Ames's Cases on Equity Jurisdiction, vol. 1 (concluded) and vol. 2; Pound's Cases on Equitable Relief against Defamation and Injuries to Personality	2				2	1
Asst. Prof. Chafee	Partnership. Ames's Cases on Partnership	2				4	
Mr. Newhall	Property. Gray's Cases on Property, vols. 5, 6 (2d ed.)	2				1	
Prof. Scott	Suretyship and Mortgage. Ames's Cases on Suretyship. Wyman's Cases on Mortgages (revised ed.)	2				2	
Prof. Williston	Bankruptcy. Williston's Cases on Bankruptcy (2d ed.)	1				4	1
Prof. Beale	Municipal Corporations. Beale's Cases on Municipal Corporations	1				3	
Prof. Joseph Warren	Quasi-Contracts. Thurston's Cases on Quasi-Contracts	1			1	8	
Graduate Courses							
Mr. Thompson	International Law. Scott's Cases on International Law	2				3	2
Prof. Pound	Jurisprudence	2				1	3
Prof. Pound	Roman Law. Pound's Readings in Roman Law (2d ed.)	2				1	3
Mr. Thompson	International Law Problems of the European War	1					2

SPECIAL SESSION FEBRUARY 1919-AUGUST 1919

Instructors	Studies and Text-books	Exercises per week	Number of students examined					
			1st year	2d year	3d year	Unclas- sified	Special	Out of Course
	First Year							
Prof. Scott	Civil Procedure at Common Law. Scott's Cases on Civil Procedure . .	2	147	1		8		3
Prof. Williston	Contracts. Williston's Cases on Contracts	3	146			6		1
Prof. Beale	Criminal Law. Beale's Cases on Criminal Law (3d ed.)	14	145	1		4		3
Prof. Beale	Principles of Liability. Beale's Cases on Liability	14	145	1		2		3
Prof. Edward H. Warren	Property. Warren's Cases on Property	2	147	1		6		6
Prof. Pound	Torts. Cases on Torts: Ames and Smith (Pound's ed.)	2	147			3		4
	Second Year							
Prof. Joseph Warren	Agency. Wambaugh's Cases on Agency	2		60	10	9		
Asst. Prof. Chafee	Bills and Notes. Ames's Cases on Bills and Notes and Brannan's Negotiable Instruments Law (2d ed.)	2		54	11	8		1
Prof. Pound	Equity. Ames's Cases on Equity Jurisdiction, vol. 1	2		64		2		3
Mr. Campbell	Evidence. Thayer's Cases on Evidence (2d ed.)	2		68		7		1
Prof. Joseph Warren	Property. Gray's Cases on Property, vol. 3; Warren's Cases on Wills and Administration	2		65		8		
Prof. Williston	Sales of Personal Property. Williston's Cases on Sales (2d ed.)	2		64		7		

Third Year

Mr. Thompson	Public Utilities. Beale's Cases on Carriers (2d ed.). Wyman's Cases on Public Service Companies (2d ed.). Frankfurter's Cases under the Interstate Commerce Act	2	1	55	9	2
Prof. Scott	Trusts. Ames's Cases on Trusts (3d ed.); Scott's Cases on Resulting and Constructive Trusts	2	16	6	5	2
Prof. Beale	Conflict of Laws. Beale's Cases on Conflict of Laws	2	66	9	6	6
Mr. Sayre	Constitutional Law. Wambaugh's Cases on Constitutional Law	2	68	8	6	6
Prof. Edward H. Warren	Corporations. Warren's Cases on Private Corporations (2d ed.)	2	66	11	3	3
Asst. Prof. Chafee	Equity. Ames's Cases on Equity Jurisdiction, vol. 1 (concluded) and vol. 2; Pound's Cases on Equitable Relief against Defamation and Injuries to Personality	2	1	65	6	3
Mr. Campbell	Suretyship and Mortgage. Ames's Cases on Suretyship. Wyman's Cases on Mortgages (revised ed.)	2	1	53	10	5

in view of the divergent practice of colleges as to awarding degrees to students who had been in military or naval service. Some colleges gave the regular degree to students who had completed three years and gone into service; some awarded the bachelor's degree *honoris causa* under such circumstances and some gave certificates only. Accordingly, it was decided to admit as regular students those who had completed three years of the prescribed course of a college of high grade and left college to enter the military service or naval service of the United States or of one of the governments allied with the United States, upon producing certificates of their college work and proper evidence of furlough or discharge from the service. This modification was made to meet a special situation which will soon come to an end and does not mean that the policy of admitting only graduates of approved colleges is to be altered or in any wise relaxed.

In June, 1919, Professor Chafee was raised to a full professorship and Dr. Sayre was appointed Assistant Professor. Also Professor Hill resigned in order to resume the practice of law. Professor Wambaugh and Professor Frankfurter returned to the school for the session of 1919-20. But the Faculty was still below its normal number, and, as it became apparent before the opening of the new school year that the attendance would be much in excess of what had been anticipated, it became necessary to procure an additional teacher. Accordingly, Professor Campbell was appointed visiting professor for 1919-20. Even so, in view of the exceptionally large registration — the largest in the history of the school — the teaching force is much too small for the work to be done and several members of the Faculty are still called upon to do more than ought to be asked of them.

It had been expected that some three years would elapse before the attendance would return to what it was before the war. Instead, the registration for 1919-20 (eight hundred and seventy-eight) is considerably in excess of that for 1916-17, which was the largest in the history of the school. Moreover, this increase is due to an exceptionally large first-year class — larger by one hundred than any prior class. As the large attendance in 1916-17 was also due to the size of the entering class, it seems likely that the increase is permanent and that permanent provision must be made therefor. The first-year classes are now much too large and division into three sections must come at once. But the second-year classes will also have to be subdivided in another year, and this means that at least two more professors should be

appointed before the end of the current year, and that provision for completing Langdell Hall should be made at the earliest date possible. Already the available lecture rooms are utilized to their full capacity.

In prior reports I have urged the needs of the school: two more endowed professorships; general endowment in order to provide more teachers, so as to enable classes to be divided to relieve the teaching force, which in recent years has had to do more than is consistent with good teaching and much more than is consistent with the scholarly work in law and legal writing which ought to be expected of professors in the Harvard Law School, and to put salaries upon a basis which will make it possible in the present and future as in the past to recruit the teaching force from the ablest men among our recent graduates; endowment for the library to maintain its position and its usefulness; completion of Langdell Hall to provide for the large classes that now come to the school; provision for first-year scholarships; at least two graduate scholarships and a fund for publication of the Harvard Studies in Jurisprudence and the Harvard Studies in Administrative Law. All of these are pressing needs and should be kept before the friends of the school, even at the cost of much repetition, until they are satisfied. They are involved in the mere maintenance of the school in its position among institutions of learning and in the keeping up of its work in the way in which we have been accustomed to do it.

Two tables are appended. The first table shows the growth of the school since 1870 in the number of students registered each year, the number and percentage of college graduates, the number of graduates of Harvard College, the number of graduates of other colleges and of non-graduates, the number of colleges represented by their graduates, and the number of students upon whom degrees were conferred. It will be seen that the registration this year is the greatest in the history of the school. The second table shows the courses of study and instruction during the year, the number of weekly exercises in each course, and the number of students who offered themselves for examination therein.

ROSCOE POUND, *Dean*.

THE FACULTY OF MEDICINE

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The past year has been peculiarly trying for everyone, but in certain ways circumstances made the activities of the Faculty of Medicine especially difficult. The devastating epidemic of influenza not only imposed upon the teaching force and students their share of illness and incapacity for work; it made also extraordinary demands upon all the clinical teachers in meeting the universal need for medical care and it led to a public call for assistance from senior medical students which the students met promptly and admirably. The consequent disturbance of the work of the School was however very considerable and it was coincident with the confusion produced by the effort to establish the Students' Army Training Corps. Together with this there was of course an extremely heavy drain upon the faculties of medical schools in the demands of the government, and these demands were heaviest in the early part of the past academic year. Less than fifty per cent of our teaching force was retained by the School as imperatively needed. Besides this great number that went directly into the army, navy or other government service a large proportion of those that continued teaching were giving much time to actual government work or special work of other kinds important in relation to the war. These facts deserve mention in order to make suitable acknowledgment of the admirable and unflinching helpful manner in which the greatly increased work and the confusing temporary adjustments of work were met by all individuals. During the early part of the year three large hospital units serving in France were manned largely by teachers in the Harvard Medical School besides the Harvard Unit that served with the British forces from 1915 until after the armistice. Many other individuals were engaged in special service of various kinds, in the army, the navy, or in other connections in which their particular training was of peculiar value. In certain ways the teaching necessarily suffered temporarily. We may reasonably believe that this loss was offset by the service rendered in a crisis.

The war has probably made a new order of things in medicine as in other activities. It seems well then in this report to view

the Medical School less in simple retrospect than in relation to the efforts that are being made and may readily be made to meet the future. The war has yielded certain information that cannot fail to be beneficial to methods of medical education. It has particularly given a well-nigh unique opportunity for medical schools to make a critical survey of their product and to judge whether their methods have yielded what is needed and intended. More than is the case with almost any other profession, most practitioners of medicine work, under usual conditions, as entirely free individuals. They have but little of certain kinds of contacts and checks that serve to tell whether the training received has been in fact as well as in intention adequate and well directed. In most other professions the earlier part at least of the careers of many of its members is spent in stages where the individual is not wholly his own master but is in some degree a part of an organization and is subject in some degree to the critical supervision of superiors. This serves both to give him further guidance and training and also to reflect back to the school from which he has come knowledge of the fitness or unsuitability of the training that he has had. This is the case with but a small proportion of graduates in medicine and that small proportion in chief part gets its supervision in the same surroundings and atmosphere as before, namely as part of the organization of a medical school. Neither with them nor their supervisors does this further experience greatly change the criteria or freshen the viewpoint. During the war, however, great numbers of doctors have worked under conditions quite the opposite of those that are usual in their work. They have had strictly defined duties in a system organized in a most rigid manner. To the usual degree of military supervision was added also an intense effort to meet a crisis effectively by special study of the men in the organization, determining deficiencies and correcting them when possible, fitting individuals to work for which they were suited and excluding or carefully controlling those who were inefficient or questionable. The interest of medical schools lies far less in the extent to which these men fitted that system than in the light that this experience throws upon their fitness to care for the sick and to protect the public health. Happily those who studied them were in large part engaged in peace times, to some extent at least, in medical education. That medical education will be influenced by this in important ways is highly probable; in just what ways it is too early to determine. But it is quite certain that medical educators feel the need of improve-

ments and changes much more keenly than before and that some defects in the product seem to be so generally agreed upon that they force certain considerations upon us at once.

There has been admirable development of the medical sciences in this country in the past generation and a remarkable increase in the number and complexity of useful clinical methods of study of patients. The changes in these ways were not paralleled in any similar period. At the same time radical changes have occurred in the academic character of medical school departments. These have, in the medical sciences especially, produced actual transformation and reformation and have wholly altered and improved their status and the devotion of their exponents to their work. In the course of such really extraordinary and rapid changes it would be remarkable were serious defects avoided entirely. Partisans have strongly insisted that the course has become "too scientific"; others have stated equally strongly that it has prostituted science to utilitarianism. Some of the latter group have insisted that the medical sciences should withdraw into institutes outside of the practical atmosphere of the medical school and medical students should take their work in these subjects in the same manner as those who have chosen purely scientific careers. Such views are obviously extreme and are now little heard. Nothing would more rapidly degrade the medical course than to fear making it scientific in the true sense; and on the other hand, making the medical sciences yield their greatest usefulness to the health of the community does not degrade them. But it demands a nice adjustment to make a background of facts and methods sufficient to give some skill in their use and to bring out clearly fundamental principles of thought and action, while at the same time avoiding such a multiplication of minutiae as actually to obscure the view of principles and confuse the students' judgment as to the essentials in reaching conclusions. Teachers of whatever kind rarely of course accomplish this. Whether modern medical education, which is really in its youth, has very closely approached this adjustment seems much more questionable now than it did two years ago. It seems not improbable that in the laboratory method especially but also in certain clinical methods the numbers of manipulations employed and of facts studied have been so multiplied that the opportunity for contemplation of them and for developing powers of reasoning have suffered.

The war seems to have demonstrated that in America more than in most other countries we have, to our credit, made rapid

progress in recent years in producing a group of men who are capable of doing excellent practical work and also of making serious contributions to knowledge. These have however been recruited from the ablest graduates and they have taken special advanced training. It seems at the same time to have been shown that a very disappointingly large proportion of medical graduates, even recent ones, lack training in logical reasoning and in application of detailed facts and methods though they often have a large knowledge of the details themselves. They very commonly lack any mental habit of employing their training in the medical sciences in solving practical problems and the details of knowledge seem often to have swamped the fundamental principles and sometimes perhaps even to have obscured the clarity of judgment. This experience has, with the Faculty of Medicine, added breadth and determination to plans started before the war. During the past year a change in the method of examination has been planned, mainly with the design of requiring the student to review and co-ordinate at the end of his course the knowledge of facts and methods acquired during the four years and to give evidence of ability to make reasoning use of any and all parts of this in practical ways. Also a committee on correlation of courses has been established. Partly through the influence of this committee, plans have been made for a closer liaison between the clinical and the laboratory branches; there have been developed new elements in some courses which have correlation of knowledge as their main object; and the heavy burden of didactic and other set hours has been somewhat lessened for the student, the time thus freed to be employed in supervised reading and in conferences. Thus far these arrangements have related chiefly to the clinical departments of medicine, orthopedic surgery and neurology and the laboratory departments of anatomy, physiology, pathology and pharmacology, but the purpose is to extend the work throughout the School in so far as this can be done with a lessening rather than an increase of the complexity of the whole to the student's mind. The operation of these plans will need prolonged testing and adjustment. It may reasonably be hoped that they will cause improvement. It is probable, however, that such efforts will leave still at least two things necessary in improving the service rendered to the public.

The first relates to the student. It is true of medicine, as it is of other lines, that a noteworthy number of young men who are mentally, temperamentally or in training ill-suited to the profes-

sion enter upon the study of it and succeed, even with severe tests of their knowledge, in obtaining degrees. Some of these men would be led into more suitable occupations through a larger and more widespread development of intimate advisory relations with suitable instructors in college and closer coöperation between these college instructors and the medical schools. Some of them must be saved from a mistaken career and the drag that they exert upon the other students by earlier and more determined rejection of them. For several years and particularly during the year just past, the standards have been more severe. They need to be advanced still further. In such rejection more definite weight should be given not only to ability to pass courses but also to some extent to peculiarities of mentality and even of temperament. Any method of using these latter criteria is notoriously difficult to devise in such form that it will be usually employed with wisdom and propriety. Nevertheless in the practice of medicine most young practitioners necessarily assume, at once and completely and without supervision, the highest responsibilities of their profession, whereas in other professions early years of practice are usually spent in unimportant undertakings or as a subordinate in an organization. In medicine the responsibility is life and health, and lives cannot be divided into the unimportant and the important. Inherent serious defects of judgment and discretion are often quite as dangerous to life as defects in knowledge. Somewhat more frequently than they are acted upon they justify particularly strict judgment of a student.

The other matter obviously needing improvement relates to the teacher and has been much discussed in late years. Imperfect correlation and coördination of knowledge may properly be charged in part against the methods of both the laboratory and the clinical teachers. The extremely marked recent specialization not only in the clinical but in the laboratory branches has made those who work in any of them more expert in their subjects. But it has had the by-effect of making them both less interested in their relations to each other and less capable of pointing out these relations than was the case when the various subjects were more simple and men could often speak with some degree of authority in several subjects. The primary responsibility for pointing out the simpler correlations and especially for fixing such habits of thought in students lies with the laboratory branches. They meet the student first and in the most impressionable part of his course. But the heavier practical responsibility lies with the clinician. The clinician

teaches practice and if he does not constantly apply the medical sciences to his work the student will scarcely do so at the behest of teachers interested solely in the medical sciences. Also the clinician teaches after the laboratory man has finished and it is wholly natural to lead the student to apply knowledge already gained to that being acquired, but nearly impossible for the laboratory teacher to develop the applications of knowledge that is being acquired to that which is still wholly in the future. But to be capable of doing this the clinician must maintain and keep fresh his knowledge of the sciences on which his work is based and this he has not usually been able to do with most of his time spent in practice. A very large share of the responsibility for the defects in medical education that have been noted must be borne then by the clinical branches but the reason for this lies in established conditions and customs and not in the individual teacher. The laboratory branches have now for a considerable period been so organized that the attention and time of the teachers have been wholly given to their academic work. In the clinical branches we have been far from this. Any reorganization of the clinical subjects must necessarily differ somewhat from that in the laboratory branches as the clinician needs continual touch with practice in order to avoid an artificial and impractical viewpoint. But radical changes are necessary in the organization of the clinical departments if defects are to be remedied. The views of the Dean concerning the desirable character of these changes have been expressed in a recent memorandum to the Faculty which has reached the University authorities and they need not be repeated. Only a few years ago sufficient suitable personnel for such development would not have been available and there was not general comprehension of its importance. Conditions are now changed and progress could be made as rapidly as funds were available.

In arranging courses however, in judging the students and in planning the personnel and organization of departments, we need far more than was the case a few years ago to keep clearly in mind the increasingly numerous and diverse ways in which a medical training may be employed. We need also to realize that the public good demands that suitable men be given a vision of these various lines and opportunity to choose intelligently between them. A generation ago few men even at graduation thought of an opportunity for anything but the practice of medicine. Some few learned subsequently that a happier career and a broader op-

portunity for their particular personal gifts lay open. Some learned this too late to be able to change their course of life. The Faculty has long realized the diversity of career that medicine now offers—general or special practice, teaching or research on either clinical or purely scientific lines, administrative or research functions in the scientific, the social or the economic relations of medicine to the government and the community; these and various other activities offer themselves and require varied talents and temperaments. Some alert students learn this early; most of them do not. Some provision may well be made to render this vista clearer to the student. Opportunity may then be given him to get clearer insight than has heretofore been possible into the actual charm and the fitness that there may be for him in those forms of work that upon superficial survey appeal most to him. The time free for electives has been recently much reduced, in large part because the choices made in electives by individual students when undirected seemed usually less desirable than a choice made for the general body of students by the Faculty. Were the choice made with systematized purpose and with thoughtful advice, following somewhat the group system of colleges, more freedom might perhaps be granted to obviously competent students. But even at present by anticipating fourth-year work in summer a student has half the fourth year free for electives. Most men will and should go into the usual forms of practice but some will go into other work. The latter thus far have largely gone into it after delay and loss of time and often at a sacrifice that more prevision might have avoided. Often they have merely drifted into it through chance or force of circumstances. That does not provide the best results for them or for the public they serve. What has been said is not at all intended as a method of making medical undergraduates into specialists. Whatever the choice, the special training must come afterward. This is merely providing a method whereby the choice of the kind of special training may be made more fitly and intelligently. The closer relations between the graduate and the undergraduate courses that have been arranged during the past year permit of offering electives of carefully grouped and coördinated subjects that will prepare for systematic graduate work in definite lines but that will nevertheless be valuable as undergraduate training. Plans are under way in certain of the departments for developing a few of the most obviously feasible and useful of these groups.

Somewhat related to what has just been mentioned is an aspect of the Medical School that has in the past year assumed much larger significance than ever before. The staff of the School includes talent and training capable of giving public service in many ways besides the training of men for the use of medical knowledge. The federal and local government and bodies related thereto, commercial and social organizations and others have many problems of health that are of humane or economic importance. The various men and the equipment for their solution are not available in their own organizations nor could they wisely be provided for all these problems. Frequently they may be found in the Medical School. There has been evidence in the past year that this has come to be realized by the public in a quite remarkable way. A group of industries contributed a year ago \$25,000 a year for five years for the study and teaching of industrial health and more than \$50,000 has been given for a permanent fund for this purpose. Department stores have added since \$10,000 a year for five years to be similarly applied to their problems. The Permanent Charity Fund has furnished \$10,000 for a study of the causes of the diseases that result from impoverished diets. A federal government agency has furnished \$7,000 for investigation of a problem in the treatment of syphilis. A large insurance company that lost heavily in last year's epidemic has provided about \$20,000 a year for three years for a study of influenza. An industrial corporation that had met the large costs of an investigation started last year of a peculiar health problem occurring in one of its plants, a problem of great scientific as well as economic interest, has expressed its appreciation of the results thus far obtained by a spontaneous proffer of a gift of \$25,000 to the School. Most of these problems have been brought to the School by those who furnish the costs of their investigation, with a request for aid in the solution of them. All told, in a little over a year, such sources have brought to the School for employment in particular researches and teaching, all of valuable and interesting character, about \$325,000, either pledged or in hand. The sums of money mentioned are of significance as money. They are more significant as evidence of the practical appreciation of the capacity of medical science to contribute to the economic and social welfare. These experiences are a gratifying evidence that research is no longer looked upon by the public, as the administrator of one university expressed it not many years ago, as "the diversion of the professors." Provision of personnel and equipment for research has become rather a privilege and a public

duty. Judicious employment of funds of the School in providing some overhead charges for personnel and equipment shows signs also of becoming less of a burden and more of an investment and may perhaps be made to yield much enlarged facilities and income to be applied to researches serviceable alike in strictly medical progress and in more general economic and humane movements.

The various departments have each carried their share of increased work under the recent stress and all have contributed members to military or other government service. In some departments whose work was of peculiarly pressing importance to the military services, so many members were on duty in these services that only a small fraction of the teaching staff remained to conduct the courses. By carrying an amount of work that would be impossible for a long period they preserved the teaching from any noteworthy deterioration. Extra pressure was continued, upon the clinical departments especially, through the fact that the teaching was carried on in the summer of 1918 in order that the class of 1919 might graduate and be ready for military service at mid-year, as was done with the preceding class. Opinion seems pretty general that both students and teachers became fagged as a consequence of this measure and the real fruitfulness of it is doubtful. The Surgeon-General's office requested medical schools to add further teaching in immunology. This added labor fell to the lot of the Department of Bacteriology and was conducted with much success. The first-year departments all had extra difficulty added to their work by the fact that men who were released from service after the opening of the school year but before mid-year were allowed to enter at the latter time and to make up their Anatomy in summer. This was done in order to save them from losing a year's time. This made extremely heavy work for the Department of Anatomy since it was necessary that the course in Anatomy be entirely repeated during the past summer.

While some departments were so much reduced in personnel that research work was impossible there was, especially considering the conditions noted, a surprising and gratifying amount done and a considerable number of investigations reached results of very noteworthy interest and importance. Several of these naturally related to the influenza epidemic, to diseases important in troops or to matters otherwise of pressing interest in relation to the war. A number of the School's staff made important contributions

while in military service. But besides studies primarily excited by the war or the vast epidemic, much was done during the year in contributing to the knowledge needed in normal times.

The character of the courses remained unchanged in major details except for what has been noted. There was added a new graduate course designed to train physicians for special usefulness in industrial plants. This is the first course with this purpose to be established in any medical school, though in the short time since it opened a number of other schools have announced their intention to offer such a course at once. There were enrolled in it eleven students, all but one of whom however were taking only special parts of the work which fitted their particular needs. The course included four months spent in Industrial Physiology, Industrial Poisonings, Vital Statistics and in working in the Industrial Clinic at the Massachusetts General Hospital and a further four months spent in the health establishments of the several industrial plants that are closely associated with this course. This one year's trial has led to a considerable enlargement and broadening of the work for the coming year. Certain parts of the course are open to undergraduates.

This course is of interest not only in its newness but as a symbol of an increasing trend of the School's activities. The sequestration of medicine and its followers from public or semi-public affairs that was so marked in past years is no longer possible in view of the economic and social developments that the calling has gone through. There is a welcome prospect of increased usefulness in these closer contacts with interests that are primarily non-medical. The practical economic value of a few lines of academic work has received, rather suddenly, a far wider appreciation. Among these lines medicine is a prominent instance. Highly gratifying as this is, there are already suggestions that practical achievements may in some not distant time come to be in some places so powerful a purpose that scholarship in teaching and abstract studies in research may suffer. Early and clear recognition that the latter must remain the guiding force in a center of learning will perhaps be necessary to spare us from the deterioration that was observed in Germany, in the medical sciences among others, even long before the war. Consideration of this is more especially necessary since neither have the standards in the art and science of medicine attained a sufficient height in this country nor have the standards reached been maintained sufficiently long to permit of compla-

cency. The progress that has been made does, however, give stimulus to further effort and encouragement to believe that high scholarship and increasing practical usefulness will be successfully used as coördinate purposes.

GENERAL STATISTICS OF THE SCHOOL, 1918-19

Candidates for the Degree of Doctor of Medicine

New Matriculants	106
Number of students in attendance:	
Fourth Class	99
Third Class	100
Second Class	89
First Class	98
Total	386
Applicants for the Degree of M.D. (October)	3
Applicants for the Degree of M.D. (March)	81
Applicants for the Degree of M.D. (June)	14
Total	98
Rejected	0
Total	98

Of the 98 students who received the degree of Doctor of Medicine, 2 received the degree *magna cum laude* and 10 *cum laude*.

Candidates for the Degree of Doctor of Public Health

Number of students in attendance	3
Applicants for the Degree of Dr. P.H. (June)	1
Rejected	0
Total	1

Summary

Students in courses of the regular medical curriculum	386
Students in the Doctor of Public Health courses	3
Total	389

DAVID L. EDSALL, *Dean*.

THE DENTAL SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit my report on the Dental School for the academic year 1918-19.

The total number of students registered was 154, distributed as follows: —

Third-year students	80
Second-year students	35
First-year students	37
Post-graduate student	1
Special student	1
<hr/>	
Total	154

Instruction was given as follows: —

- Comparative Anatomy. — Instructor BOYDEN, Assistant NATHAN.
- Anatomy and Histology. — Associate Professor BREMER, Associate Professor LEWIS, Associate Professor WARREN, Instructors BEGG, GREEN, and HAMILTON.
- Physiology. — Professor CANNON, Assistant Professor STILES, Instructors DRINKER, FORBES, and REDFIELD.
- Chemistry. — General and Qualitative, Volumetric and Organic, Clinical. — Lecturer H. CARLTON SMITH, Instructor RICE.
- Bacteriology. — Professor ERNST, Associate Professor WOLBACH, Instructors FLOYD, BOVIE, PAGE, CASTLEMAN, STEELE, Assistants SPOONER, BOUTWELL, and PERRY.
- General Pathology. — Professor COUNCILMAN, Associate Professor MALORY, Associate Professor WOLBACH, Assistant Professor WRIGHT, Instructors COOK, GOODPASTURE, and FOOT, Assistant WULLFAERT.
- English. — Instructor RICE.
- Materia Medica and Therapeutics. — Lecturer O'CONNELL, 32 lectures.
- Dental Pathology. — Lecturer THOMA, 16 lectures.
- Syphilis. — Assistant Professor C. MORTON SMITH, 1 lecture, 32 clinics.
- Surgery, Surgical Pathology, and Oral Surgery. — Professor MONKS, 27 lectures; Assistant Professor BLAKE, 5 clinics; Assistant Professor MINER, Instructor BRIGHAM, clinics. 160 hours.
- Neurology. — Professor E. W. TAYLOR, 4 lectures.
- Inlays, Practical Work, Seniors. — Instructors HADLEY, OLDHAM, and NESBETT. 96 hours.
- Inlays, Specimens, Sophomores. — Instructors HADLEY and WARNER. 75 hours.
- Radiography. — Instructor CUMMINGS, 16 lectures, 4,000 radiographs.
- Extracting and Anaesthesia. — Instructors FARRINGTON, JEWETT, WOLFE, LESLIE, J. MARK SMITH, RING. 820 hours.

- Orthodontia, Seniors. — Assistant Professor BAKER, 16 lectures.
- Orthodontia Practice, Seniors. — Assistant Professor BAKER, Instructors FERNALD, HOWE, HATFIELD, W. C. MINER, and GOVE. 158 hours.
- Crown and Bridge Work, Seniors. — Instructor PETERS, 15 lectures; Lecturer HOVESTAD, 15 demonstrations.
- Crown and Bridge Work, Laboratory, Seniors. — Lecturer HOVESTAD, Instructors PETERS, ANDREWS, BRIGHAM, F. W. HOVESTAD, WESTON, RUELBERG, Assistants ROBERTS and SLACK. 120 hours.
- Prosthetic Dentistry, Seniors. — Assistant Professor BECKFORD, 16 lectures.
- Prosthetic Dentistry, Laboratory, Seniors. — Assistant Professor BECKFORD, Instructors RUSSELL, LANGLEY, MYERSON, GAHM, MALMSTROM, SHANNON, GIBLIN, FLAGG, CLARKE, ELDRED, Assistants CAVANAGH, CHAMBERS, F. F. FURFEY, BERRY, MAHONEY, FISKE, BOLAN, JAFFAR, HALL, RAY, and LEWIS. 384 hours.
- Prosthetic Dentistry, Sophomores. — Assistant Professor BECKFORD, 16 lectures.
- Prosthetic Dentistry, Laboratory, Sophomores. — Assistant Professor BECKFORD, Instructors DORT, SULLIVAN, Assistants PIERCE, B. S. STEVENS, SPROAT, GLAZIER, McCARTY, WILLIAMS, YOUNG, GOETZ, and GALLOWAY. 595 hours.
- Facial Restorations and Fractured Jaws. — Instructor RIHAN. 240 hours.
- Pyorrhoea Alveolaris, Seniors. — Instructors STANLEY and C. B. VAUGHAN. 32 clinics.
- Local Anaesthesia and Root Canal Treatment. — Instructors JAMESON, SQUAREBRIGGS, S. H. VAUGHAN, CURTIS, ASHLAND, WHITE, ABBOT, PROVAN, Assistants WALLACE, BURNS, JOHNSON, KARCHER, KIMBALL, and LEBARON.
- Operative Dentistry, Sophomores. — Assistant Professor DILL, 32 lectures.
- Operative Dentistry, Practical Work, Sophomores. — Assistant Professor DILL, Instructors PERRIN, WOOD, HICHBORN, JEWETT, QUINBY, TISHLER, MACKINTOSH, BURNHAM, HAYDEN, C. E. STEVENS, Assistants GRAY, HOEY, LOVELAND, RANDALL. 535 hours.
- Operative Dentistry, Seniors. — Assistant Professor DILL, Lecturers MIDGLEY and WRIGHT, Instructor JAMESON, 32 lectures.
- Operative Dentistry, Lectures and Clinical Conferences, Seniors. — Professor E. H. SMITH. 6 times.
- Operative Dentistry, Clinical Demonstrations, Seniors. — Assistant Professor BLAISDELL and Instructors FURFEY and ELLIOTT.
- Operative Dentistry, Practical Work, Seniors. — Professor SMITH, Assistant Professor EDDY, Instructors CARLE, A. H. S. CHASE, CODMAN, CROWLEY, DAVIS, EMERSON, ESTES, HEAP, LAWTON, LIBBY, NAYLOR, PARKHURST, PARSONS, PAUL, PIKE, RYDER, SPINNEY, F. T. TAYLOR, TIMLIN, WHITCHURCH, WYMAN, SIMPSON, SPENCER, McCULLAGH.

In the early fall the dental students of the Naval Unit were aimlessly drifting about for the lack of proper supervision from the Navy Department, and upon investigation the medical stu-

dents belonging to the Naval Unit were found in the same condition. I immediately got in touch with Admiral Rodgers, which resulted in the proper organization of the Unit with headquarters in the Dental School.

The signing of the armistice in November of last year caused a sudden change in the activities of the School. From active work in furnishing dental men for war service and in the training of S. A. T. C. students in dentistry, our efforts were directed to the establishment of pre-war conditions. The S. A. T. C. was demobilized and teachers were returning from war service to school duties.

These conditions interfered with research work to a marked degree. Many research problems that were under way suffered a severe check owing to the activities of research teachers in other fields of work — hence there is but little to report along research lines.

H. Carlton Smith, head of our Chemistry Department and of the Committee of Research of the Harriet Newell Lowell Society of Dental Research, reports that "During the past year we have started a systematic study of all cases of pyorrhoëa coming to the Dental School Clinic, with special reference to possible relations between this disease and various systematic conditions.

"We have examined urine and saliva from many of these patients and in several cases have made a study of the diet of the patients. Our object is, first, to thoroughly classify the cases and then study each class separately. For example, it is generally stated that diabetes may be a predisposing factor to pyorrhoëa. Our experience leads us to believe that any condition which materially lowers the vitality may be considered a predisposing cause of pyorrhoëa. We also find that the great majority of cases show an indication of acidosis."

Dr. Percy R. Howe, Assistant Professor of Dental Research, reports progress in his investigations of dental caries. A study is being made of the flora of mouths where caries is extensive and again in mouths that are free from it. The bacteria of the lesion itself has been studied in about one hundred and fifty cases, and described. The validity of various theories of caries is being considered, Miller's in particular.

By deficient dietaries Dr. Howe has produced experimental pyorrhoëa. The micro-organisms of this condition he has studied, but has not been able to produce the disease by bacterial injections. Dietary experiments upon animals bearing young are being

conducted in order to observe the effect upon the teeth of the young. In both pyorrhoea and in extensive caries a quite complete urinary examination is being carried out.

Assistant Professor Kurt H. Thoma has contributed the following in papers and clinics: Post-graduate course of one week given in New Orleans, La., under auspices of Four States Dental Society, June, 1918; paper entitled "The Microscopic Study of Dental Conditions," read before First District Dental Society, December, 1918, New York City; paper on "The Histological Pathology of Dental Lesions," read before one of the district societies of the State of New York in Rochester, N. Y., January, 1919; paper entitled "Clinical, Roentgenographic, and Microscopic Diagnosis of Dental Condition," read before Academy of Somatology in Philadelphia, Penn., April 28, 1919; paper entitled "The Diagnosis of Surgical Diseases of the Mouth," read before the Eastern District Dental Society of Massachusetts at New Bedford, October 2, 1919.

Also publications as follows: Items of Interest, June, 1918, Conditions of Bone in Cases of Dental Granulomata or Chronic Alveolar Abscesses; *Boston Medical and Surgical Journal*, July, 1918, Dental Diseases in Relation to Diseases of the Nose and Throat; Dental Summary, January, 1919; Chronic Diseases of the Mouth; Dental Cosmos, August, 1919, Clinical, Roentgenographic and Microscopic Diagnosis of Dental Diseases; *Journal of Dental Research*, June, 1919, A Contribution to the Knowledge of the Development of the Submaxillary and Sublingual Salivary Glands in Human Embryos.

Assistant Professor of Orthodontic Research Alfred P. Rogers has published the following papers: "The Establishment of Occlusion and Its Successful Maintenance"; "Exercises for the Development of the Muscles of the Face with a View to Increasing their Functional Activity"; "Muscle Training and Its Relation to Orthodontia"; "Psychology in Its Relation to Practice"; "Teaching Our Patients to Overcome Undesirable Muscular Habits"; and "Orthodontic Appliances and Gingival Tissue."

Assistant Professor of Oral Surgery Leroy M. S. Miner gave a course at the Royal College of Dental Surgeons, in Toronto, in Physical Diagnosis and Oral Surgery, in collaboration with one other American from Chicago and two Canadian army surgeons. This course was repeated later in Columbia University under the auspices of the Preparedness League of American Dentists.

Dr. Franklin Dexter, Director of Scholarships for the Medical School, has been good enough to help the dental students, as the following report shows:

Number of students interviewed	5
" " interviews	6
" " letters received and answered	8
Total number of students aided, exclusive of scholarships . . .	4
Number to whom money was loaned	4
Amount of money loaned	\$171.51
Sources from which money was obtained — Private Fund ..	171.51
Amount of money refunded	36.53

The following members of our teaching staff have hospital connections:

Assistant Professor Leroy M. S. Miner	} Massachusetts General Hospital
Lecturer George H. Wright	
Instructor Joseph A. Ring	
Instructor Fred R. Blumenthal	
Professor William H. Potter	} Peter Bent Brigham Hospital
Instructor Ferdinand Brigham	
Instructor Fred R. Blumenthal	} Children's Hospital Long Island Hospital
Instructor Kurt H. Thoma	
Instructor Leonard D. Nathan	} Robert B. Brigham Hospital
Assistant Harold J. Cutler	
Instructor Earle C. Cummings	} Long Island Hospital
Instructor Frank H. Leslie	
	} Danvers State Hospital

In July the members of the Old Grads' Summer School visited the Dental School and learned from the Dean its present needs and its future hopes. The growth and future development of the Dental School depend largely upon adequate funds.

EUGENE H. SMITH, *Dean.*

REPORT OF THE DIRECTOR OF SCHOLARSHIPS IN THE MEDICAL SCHOOL

September 23, 1918—September 22, 1919

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,—I respectfully beg leave to submit a report of the work done in my office at the Medical School for the past year.

	Medical	Dental	Total
Number of applicants for first-year scholarships	21		21
Number of applicants for other scholarships...	60		60
Number of students interviewed.....	120	5	125
Number of interviews.....	246	6	252
Number of letters received and answered.....	153	8	161
Total number of students aided (exclusive of scholar- ships).....	14	4	18
Number to whom money was loaned.....	13	4	17
Number to whom money was given.....	1		1
Amount of money loaned.....	\$905	\$171.51	\$1,076.51
Amount of money given.....	90		90
Sources from which money was obtained:			
Private Fund.....	\$805	\$171.51	\$976.51
Anonymous Gifts.....	190	..	190
Amount of money refunded.....	755	36.53	791.53

FRANKLIN DEXTER,
Director of Scholarships.

THE LIBRARY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Director of the University Library and Chairman of the Council of the College Library, I beg to submit my report covering the year July 1, 1918, to June 30, 1919.

As in the previous year, the University Library, and especially the College Library, was affected in many ways by the War and by the abnormal circumstances that continued after the cessation of hostilities. The work of the S. A. T. C. students continued through the summer and autumn, that of the Officer Material School lasted well into the spring, and that of the Overseas Despatch Office of the American Library Association in the basement of Widener will hardly be over by the end of 1919. The historical and other books that had been sent to Paris for the use of the staff of the American Peace Commission, after doing, in some cases, good service, found their way back to their shelves in the course of the summer.

The purchase and the receipt of books continued to be somewhat uncertain and communications were not yet reestablished with the formerly hostile countries, in fact, owing to difficulties of one sort or another, it may be months yet before the Library gets back to comfortable working conditions. The prices of books published in this country have risen, we may suppose permanently. Under these circumstances the number of volumes acquired by most of the Departmental Libraries has not been up to the normal average. In the case of the College Library, the growth has been large, but this is due chiefly to the Wendell Bequest. The extraordinary theatrical library bequeathed to Harvard by the late Evert J. Wendell, '82, comprised, besides a large number of duplicates and other things which the Library did not keep, twelve thousand English and American plays and some twenty thousand volumes and pamphlets, fifty thousand popular songs, about one hundred and fifty thousand photographs, most of them of theatrical celebrities, besides ninety thousand theatrical play bills.

Thanks to this bequest and to the gift made four years ago by Mr. R. G. Shaw, the Harvard Library now possesses the most remarkable collection in existence of everything that deals with the

history of the American stage, and not a little on that of the English one. We have still an immense field before us in the theatrical and dramatic literature of other countries. We have something about them already and may hope in time to cover the ground, if not adequately, at least tolerably. It should be remembered that each additional specialty that the Library can build up will be not only of value in itself, but will supplement and reënforce other specialties already there. It is the number of specialties, rather than the total number of volumes, that makes the really great library.

The mere handling of the vast mass of material in the Wendell Collection, which was quite without arrangement, took up the time of several people for many months, and is not yet finished. It would have been financially impossible for us to undertake, if we had not been able to anticipate by borrowing from the Corporation the proceeds of the auction sale of duplicates that took place in November, 1919. Even as it is, though the results of the sale were quite satisfactory in themselves, they do not cover all the expenses that have been incurred in handling the Wendell Collection. Some thousand of the plays will have to remain unbound at least for the present.

Like all other institutions, the Library has suffered from the rise in prices and especially in wages. We pay our people little enough, but the cost of cataloguing the books — one of the things hardest for outsiders to understand, and one of those that every good librarian is always seeking to cut down — is none the less rising in an alarming manner. The fact that the cost of cleaning the floors has increased to an even greater extent is but a poor consolation.

ARCHIBALD CARY COOLIDGE.

APPENDIX TO THE LIBRARY REPORT

ACCESSIONS

The accessions to the University Library for the year and the present extent of each of its parts are shown in the following tables:—

LIBRARIES	Volumes and Pamphlets added	Present extent in Volumes and Pamphlets
College Library:—		
Main Collection	61,000	1,058,000
Forty-three Special Libraries	7,800	118,500
Total	68,800	1,176,500
Departmental Libraries:—		
Law School	6,276	201,000
Andover-Harvard Theological Library	4,199	172,800
Museum of Comparative Zoölogy	2,520	118,500
Peabody Museum	389	15,200
Astronomical Observatory	697	51,800
Gray Herbarium	1,810	29,900
Medical School	2,208	89,400
Dental School	149	2,700
Arnold Arboretum	593	40,200
Bussey Institution	1,563	24,600
Blue Hill Observatory	39	23,500
Total	88,743	1,940,600

Maps in sheets, in the College Library, 31,217.

Broadsides, posters, programs, play bills, leaflets, clippings, autographs, photographs, engravings, etc., are not included in the figures above, and it is impossible to give any enumeration of them. The collection of broadsides alone, American, English, French, etc., includes several thousand sheets.

The additions to the main collection have been:—

RECEIVED BY COLLEGE LIBRARY	1914-15	1915-16	1916-17	1917-18	1918-19
By purchase or exchange, vols.	11,741	10,573	12,778	10,787	10,005
“ “ “ pams.	4,697	2,371	4,960	9,781	3,618
By gift, vols.	34,886	16,953	26,889	14,157	24,787
“ “ pams.	24,275	12,544	14,865	26,201	32,077
By binding serials, vols.	2,357	2,042	2,601	2,602	1,936
Total volumes	48,484	29,568	42,268	27,496	36,678
“ pamphlets	28,972	14,815	19,325	35,982	35,695
Total received, vols. and pams.	77,456	44,383	61,593	63,478	72,373
Maps in sheets	512	269	287	681	360
Net growth (after making allowance for transfers, duplicates disposed of, etc.)	45,481	29,581	29,000	32,000	61,000

EXPENSES ON BOOK ACCOUNT FOR FIVE YEARS

	1914-15	1915-16	1916-17	1917-18	1918-19
Central Library:					
From book funds	\$25,674	\$20,997	\$24,748	\$26,582	\$32,928
From special gifts, etc.	8,841	4,076	15,761	6,479	7,605
Total	\$29,515	\$25,073	\$40,504	\$33,061	\$40,533
Special libraries	7,710	7,526	7,060	6,298	6,199
Total	\$37,225	\$32,599	\$47,564	\$39,354	\$46,732

SPECIAL LIBRARIES

The present extent of these forty-three libraries is as follows:—

<i>In the Widener Building</i>		<i>Outside the Widener Building</i>	
	Volumes and Pamphlets		Volumes and Pamphlets
Bureau for Municipal Research.		Zoological Lab. <i>Museum</i>	449
Room O.....	7,479	Engineering. <i>do.</i> ...	510
Business School. Rooms G, H,		Students' Palaeontological Lab.	
and I.....	11,805	<i>Museum</i>	11
Child Memorial. Room Z...	5,837	Plant Physiological Labora-	
Classics. Room E.....	5,279	tory. <i>Bot. Museum</i>	385
Economics. Lower R. R....	1,947	Astronomical Lab.....	143
French. Room W.....	2,673	Philosophy. <i>Emerson</i>	6,321
German. Room Q.....	1,684	Social Ethics. <i>do.</i>	10,317
Graduate Economics. Room V	437	Semitic. <i>Semitic Museum</i> ...	2,201
Graduate History. Room K	657	Germanic Museum.....	76
History. Lower R. R.....	6,033	Sanitary Engineering. <i>Pierce</i> .	
Lowell Memorial. Room X.	1,712	Economic Geology. <i>do.</i> ...	150
Mathematics. Room T....	1,369	Mining and Metallurgy. <i>Rotch</i>	
Sanskrit. Room A.....	964	<i>Lab.</i>	545
Statistical Lib. Room U ...	247	Music. <i>Music Building</i>	2,852
		Fine Arts. <i>Fogg Museum</i> ...	2,427
		Architecture. <i>Robinson</i>	2,731
		Landscape Arch. <i>do.</i>	4,168
		Preachers' Lib. <i>Wadsworth</i> .	118
		Office of Medical Adviser.	
		<i>Thayer</i>	38
		Phillips Brooks House Lib....	500
		Forestry. <i>Bussey Institution</i>	132
		Total, Special Libraries...	121,257
		Deduct for books on deposit	
		from Central Library	2,742
			118,515

CIRCULATION AND REFERENCE DEPARTMENT

The following table shows the use of books as recorded at the delivery desk and at the desks in the two larger reading rooms, but there is no way of showing the unrecorded use of books in the reading rooms and in the stack, and the temporary use of books in stalls and studies.

USE OF BOOKS	Randall Hall and Massachusetts Hall		Widener Memorial Library			
	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19
Recorded at Loan Desk :						
1. Lent for home use	53,467	57,058	55,730	60,621	53,709	45,348
2. Reading room use	28,736	25,219	45,415	54,233	27,181	22,173
3. Study use . . . . .	.....	.....	1,254	1,598	1,420	1,604
4. Stall use . . . . .	.....	.....	5,789	11,269	12,016	9,233
Total	82,203	82,277	108,188	117,721	94,326	78,358
Overnight use of Reference Books:						
General reading room	12,322	14,272	14,612	13,348	8,977	9,152
Lower reading room	14,186	12,986	6,332	5,421	5,977	2,844*

* Open only from January to June, 1919.

GIFTS OF THE YEAR

SUMMARIZED FROM THE REPORT OF THE LIBRARIAN

The receipt of the bequest of books, manuscripts and autographs, plates, portraits, and theatre programs under the will of Evert J. Wendell, '82, was mentioned in last year's report, but the total of 15,753 volumes and 16,515 pamphlets enters into the accession statistics of the present year. The other items, more than 250,000 in number, have not yet been counted.

Other gifts of books received during the year are the following: —

From the library of Jean Sanchez Abreu, Class of 1914, a military aviation pilot in the French Flying Corps, who lost his life in an automobile accident May 24, 1917, more than a thousand volumes on the history of Cuba and in French literature; from the library of Davis Morton Mitchell, class of 1887, 425 volumes, mostly well-bound books in French Literature and Fine Arts, together with several oil paintings; from the library of John Heard, Lawrence Scientific School, 1878-79, 243 volumes of scientific works; from J. P. Morgan, '89, a set of "The North American Indians," by Edward E. Curtis, in 22 folio volumes. Mr. James Melville Hunnewell, of 1901, has deposited with the Library 148 volumes of incunabula from the collection of his father, the late James F. Hunnewell, of Charlestown. From Guy F. Emerson, 1908, of New York, a large collection of

war posters, comprising both American and foreign examples; from Mrs. Daniel B. Fearing, of Newport, the collection of bookplates — about 3000 in number — formed by the late Daniel B. Fearing, who had given to us before his death his extensive collection of literature on fish and fishing. Mr. Fearing's bookplates, which he had been collecting during the latter years of his life, are confined to those relating to angling, or representing watercraft or fishes in some form.

The number and amount of gifts of money for the purchase of books received during the year was unusually small, the total being only a little over \$700. The principal gifts were from the Division of Modern Languages, \$150; from Mr. Walter Naumberg of New York, for the purchase of books on Shakespeare, \$200; from Mr. George C. Beals, for the purchase of books in English A, \$50; from Mr. James Loeb, for the purchase of labor periodicals, \$100; and from the Dante Society, \$100.

Several new funds were established either during the year or immediately after its close. These are the Jopling Fund of \$500, given by Mr. and Mrs. James E. Jopling, in memory of Richard Mather Jopling, of the Class of 1916, a member of the United States Army Ambulance Corps in the European War, who died in London, March 16, 1919, the income to be used for the purchase of books on music; the Merrill fund of \$3000, given by Mr. Samuel Merrill, in memory of his son Wainwright Merrill, of the Class of 1919, killed in action at Ypres, November 6, 1917, the income to be used for the purchase of books on the European War, or in English and American literature; the Starr fund of \$1000, given by Dr. and Mrs. Louis Starr, in memory of their son, Dillwyn Parrish Starr, Class of 1908, Lieutenant, Coldstream Guards, killed in the battle of the Somme, September 15, 1916, the income to be used in the purchase of books on Military History, preference being given to British regimental histories, or British military history in general; and the Wendell fund, a legacy of \$10,000, received under the will of Evert Jansen Wendell, of the Class of 1882, the income to be used in the purchase of books, prints, pamphlets, photographs, souvenirs and the like, for the Library's collection of dramatic literature and memorabilia.

APPLETON CHAPEL AND PHILLIPS BROOKS HOUSE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— At the beginning of the year the number of regular students in the University was greatly diminished. Many of the officers of instruction were absent. The men of the Student Army Training Corps were strange to the ways of the place. Many of them were here for but a few weeks. Two Sunday services in October were omitted because of the epidemic of influenza. The epidemic affected all exercises of the University for several weeks. At the end of the first three months' term under the military regulations, after the armistice, the students of the Army Training Corps were rapidly withdrawn. The return of regular students began after the Christmas recess, but the usual number was not reached until the end of the year. Even under these circumstances the attendance at the Sunday morning services showed no very marked falling off. On the other hand the daily service of prayers showed the full effect of the unfavorable situation. By military order the hour of this service had been changed to seven o'clock in the evening. The choir had been quite broken up. The average attendance at this daily service for twenty-seven days in October, 1918, was seventy-two. The corresponding figure for 1917 had been only eighty-five. That for 1916 had been one hundred and forty-five, and that for 1914 one hundred and seventy-four. The corresponding figure for 1919 is one hundred and fifty-five. Pastoral duties of the preachers, and particularly of the Chairman of the Board, to the sick and to others in the student body, as also in the Army Training Corps, in the Radio School and in the Naval Officers' Material School were far greater than ever before.

On the first of January the Chairman was granted leave of absence to serve with the American Commission for Relief in the Near East at Constantinople. The Rev. Paul Revere Frothingham took his place as acting chairman. All the religious services of the University for the second half year were under his care. They showed the effect also of the gradual return to the University of normal conditions. The opening month of this new year is encouraging in high degree. The choir is again effective and just-

fies the hopes connected with the retaining of the services of Professor Davison.

The Chairman would take occasion to call attention to the report to the Board of Overseers presented at the end of the year by Dr. Frothingham in his capacity as Chairman of the Overseers' Committee on the visitation of the Chapel. Especially he would ask consideration of Dr. Frothingham's word concerning the need of a new chapel. The Chairman himself begs to be allowed to make a suggestion. If the proposed memorial to men who have fallen in the war were to take the form of a hall of assembly for the uses of the University upon great occasions, as is easily conjectured by those who know the needs of the University in this regard, he begs to ask if a new chapel might not be made a part of such a new great building. The chapel portion would need to be no larger than would be appropriate for its own ordinary uses as a chapel. The organ could be so placed as to serve the uses of both places of assembly, and if the new building were to be located in the area of the more recent growth of the University, south of Mt. Auburn Street, the arrangement would go far to overcome the difficulty which the Freshman dormitories have in recent years undoubtedly created for the chapel, a difficulty which with best effort we have been able in small measure only to overcome.

When the College opened in September, 1918, the Phillips Brooks House Association also faced changed conditions and new needs. The canteen for the men of the Navy Radio School, which had been conducted during the previous year by a committee of women connected with the University and certain officers of the Phillips Brooks Association, had indeed been turned over during the summer to the Christian Association's Administration of War Huts. The same committees continued, however, to use a large part of the Brooks' house as a Hostess House for the Radio School. On the other hand, the house of the Speakers' Club, 39 Holyoke Street, was turned over by the University to the Phillips Brooks House Association for a new canteen to be managed in the interests of the Students' Army Training Corps, these men being located largely in the Freshman dormitories. Mrs. Gulick, who had had charge of the Naval Radio Canteen, served also in the new venture. Mrs. Moore, who had been treasurer of the Radio Canteen, became treasurer of the house in Holyoke Street and Mr. Harold Thurston, who had succeeded Mr. Beane as Graduate Secretary of the Brooks House, acted as manager. Through the courtesy of Mr. A. H. Parker the use of the building of the Hasty

Pudding Club was offered in order to provide entertainment for men in the service. The Forty-Seven Workshop rendered a play each week.

So far as possible the usual activities of the Brooks House Association and its constituent societies were maintained. The usual devotional meetings were held. Discussion groups lead by members of the Faculty met each week. The social service, however, was practically suspended during the period of the presence of the Students' Army Training Corps. It was resumed after the armistice. At the end of the year the number of men conducting groups in this service was one hundred and sixty. In April the work of the Hostess Committee of the Radio School was finally withdrawn from the House and the Holyoke Street Canteen was given up. Two notable achievements during the year were the reorganization of the Harvard Mission and the formation of a committee of advisors for foreign students, which is composed largely of members of the Faculty. In March Mr. Walter I. Tibbitts took the place of Mr. Harold M. Thurston as Graduate Secretary. Mr. Arthur Beane, the former graduate Secretary, has been appointed by the President and Fellows a members of the corporation's committee having charge of the Brooks House. The Graduates Advisory Committee has rendered invaluable service in a difficult time.

EDWARD CALDWELL MOORE, *Chairman.*

THE GRAY HERBARIUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — During the academic year 1918-19, in addition to the regular staff, the following persons have been temporarily employed at the Gray Herbarium in special capacities: Mr. C. A. Weatherby, continuing the organization and critical identification of the ferns; Messrs. J. P. Poole and F. C. Seymour, in determinative work and distribution of *inserendae*; Mr. A. C. Kinsey, in photography; Miss Helen E. Day, in bibliographical indexing; and Miss Alice Wyeth, as clerical assistant.

The more noteworthy collections of plants received during the year have been as follows:

I. *By gift, in exchange, or for identification:*

From the herbarium of the Bureau of Science at Manila, 1518 plants of the Philippine Islands, a collection of considerable scientific importance, as illustrating the recent work of Professor Elmer D. Merrill, the foremost authority on the Philippine flora; from the New York Botanical Garden, 416 plants of Colombia, collected by Drs. H. H. Rusby and F. W. Pennell, a series as yet only partially identified but of exceptional interest; from the New York State College of Agriculture, through Professor K. M. Wiegand, 422 plants of New Jersey and 24 of Staten Island; from Dr. Janet R. Perkins, 270 plants of Jamaica; from the Carnegie Museum at Pittsburg, 139 plants from the Isle of Pines, collected by Dr. O. E. Jennings, also 80 specimens representing chiefly pteridophytes and orchids of Ontario; from Mr. J. F. Rock of the College of Hawaii, 40 specimens of Hawaiian *Cyrtandreae*, a choice collection including no less than 23 types and co-types and representing a group of exceptional phytogeographic interest; from Mr. B. Preston Clark, 92 plants of Alaska and Yukon, collected by Mr. J. A. Kusche and exhibiting the vegetation of certain regions only recently rendered accessible by the gradual extension of trade routes; from Professor L. H. Pammel of the Iowa State College of Agriculture, 90 plants of Iowa; from Judge J. R. Churchill, 40 plants of Virginia and 128 miscellaneous specimens, all collected by himself and admirably prepared; from the California Academy of Sciences, through Miss Alice Eastwood, 943 plants of California; from Miss J. LeBrun, 148 ferns of Teneriffe; from Bro. Marie-Victorin, of the College

de Longueuil, 249 plants of the Province of Quebec; from the United States National Herbarium, 53 plants from Mexico collected by Dr. J. N. Rose, 98 plants of Mexico collected by Mr. E. A. Goldman, 46 plants of Colombia collected by Bro. Arist-Joseph, and 131 miscellaneous duplicates; from the Geological Survey Department of Canada, 96 plants of Canada; from the New York State Museum at Albany, through Dr. H. D. House, 114 plants chiefly from New York state; and from Mr. T. W. Edmondson, 217 plants chiefly of England, Wales, and the Province of Quebec.

II. *Acquired by purchase:*

From Professor H. Pittier, 1265 plants of northern Venezuela; from Mr. W. H. Blanchard, 456 specimens of American *Rubi*, a series carefully selected to illustrate Mr. Blanchard's intensive study of this difficult group; from Mr. J. C. Nelson, 286 plants of Oregon; from Mr. Pedro Jörgensen, 369 plants of Argentina; from the Canton Christian College, 391 plants of tropical China; from Professor Morton E. Peck, 486 plants of Oregon; from Professor H. N. Whitford, 443 plants of southern Brazil, chiefly ligneous species important for the identification of tropical timbers; and from Mr. P. C. Standley of the National Museum, 1528 plants of Mexico collected by Bro. G. Arsène chiefly in the states of Michoacan, Puebla, and Querétaro.

III. *Received from fieldwork done for the Gray Herbarium:*

Professor Fernald, during the collecting season of 1918, continued his detailed exploration of Cape Cod, giving particular attention to the shores of ponds. These were found to have far greater individuality in their florulae than had been previously suspected. Professor Fernald, with the skilled assistance of Mr. Bayard Long of the Philadelphia Academy of Natural Sciences, extended his investigation to a great number of these ponds, discovering several new species, adding many plants to the known flora of the Cape, and collecting for the Gray Herbarium no less than 10,818 sheets of specimens. Of these 4000 were gathered to furnish appropriate material for the continuation of the *Exsiccatae Grayanae*.

Mr. H. M. Curran, a tropical forester, commissioned during a journey to Brazil to make further collections for the Gray Herbarium, was able during the year to send in 1648 plants (chiefly ligneous), mostly from Para, Pernambuco, and the region around Bom Fim in the interior of Bahia, also 107 plants from the Island of St. Thomas.

Professor H. Pittier collected for the Gray Herbarium 60 species of northern Venezuela in quantity of 10 sheets each to be used in tropical exchanges.

Mrs. J. M. Spencer, continuing her work for the Gray Herbarium in the more arid regions of southern California, sent in during the year 984 specimens, mostly in sets of five each for use in exchange.

Dr. J. N. Rose was sent on a collecting journey to Ecuador during the autumn of 1918. The expedition was jointly financed by the New York Botanical Garden, National Museum, Department of Agriculture and Gray Herbarium. Spending about three months in Ecuador and making arduous journeys along the Andes, Dr. Rose was able to secure a collection of high scientific interest including many hitherto unknown species. A part of his route coincided with that followed more than a century ago by Humboldt and Bonpland in their classical exploration of the Andes, and he was successful in rediscovering some plants hitherto known only from their fragmentary material. The Gray Herbarium share of the Ecuadorian collection thus obtained amounted to 1183 specimens and 88 photographs.

The entire number of specimens received from all sources has been 26,921. There have been added to the organized portion of the herbarium 16,403 sheets of mounted specimens. Three sheets were withdrawn on account of duplication. At the close of the year the number of sheets in the organized herbarium was 597,375. The volumes added to the library by purchase, exchange, or gift have numbered 675 and two duplicates have been removed, bringing the total number of volumes in the library June 30, 1919, to 18,396. The pamphlets added to the library have numbered 1133. Five pamphlets have been removed as duplicates or for binding. The whole number of pamphlets at the end of the year was 11,540. During the year four more issues of the Card Index of New Genera, Species, and Varieties of American plants were printed and distributed. These together included 4,288 cards and brought the whole number of cards in the Index to 119,275.

Early in the academic year the botanical books and pamphlets from the library of the late Dr. George Golding Kennedy, bequeathed by him to the Gray Herbarium, were received. This collection, including 1025 volumes and 1498 pamphlets, the result of lifelong interest in botany and discriminating liberality in the acquisition of its best literature, included many works of rarity not previously represented in the library of the Herbarium. Among its specialties may be mentioned medical and pharmaceuti-

cal botany, also works of travel and exploration including scientific data regarding vegetation, and finally some rare local floras which have appeared in town or county histories now long out of print and difficult to obtain. No single accession received by the library of the Gray Herbarium during the present generation has exceeded this in extent and value.

To the equipment of the laboratory there has been added, by gift from Miss Susan Minns of the Visiting Committee, a Bausch and Lomb photo-micrographic camera with superior shutter and adapters permitting its use with dissecting as well as compound microscopes. This apparatus will permit photographic record of small differential characteristics such as the sculpturing of achenes and the finer details of pubescence, pappus, etc.

In the course of the year two members of the staff, who had been employed some years at the Gray Herbarium, left to avail themselves of business openings in Boston. This is significant and shows clearly the need of a higher scale of salaries. If, in this way, persons specially trained for scientific work are drawn off by the greatly increased pay in many other professions or to business, clerical, or administrative positions, it will be exceedingly difficult to fill their places or to induce competent students to select scientific research as a calling.

The Visiting Committee voted again to issue its annual circular in the interests of the Herbarium, and in response eighty-five patrons contributed for present use sums, mentioned in the report of the Treasurer, together amounting to \$1440. In consequence of these timely gifts and notwithstanding the increased cost of services, printing, coal, gas, electricity, and nearly all supplies employed at the establishment the Herbarium was again able to complete its year without deficit.

Only one gift for endowment was received, namely \$50 from Mr. E. F. Williams, Secretary of the Visiting Committee. This sum at his request has been added to the Gray Memorial Fund.

The present needs of the Herbarium are primarily as follows: (1) Increase of endowment to permit the raising of salaries in proper relation to recent advance in the cost of living. (2) The enlargement of the permanent staff to include two or three more assistants of proper qualifications who could be trained to special acquaintance with particular groups of plants or regional floras, such as those of the Gulf States, the Rocky Mountains, or Pacific Slope, etc. Such assistants would not merely relieve the older members of the staff from much time-consuming determinative work relat-

ing to such groups or areas, but would themselves gain experience and training to make them invaluable as understudies for the older men. (3) A fund of moderate size to permit, as occasion may require, appropriate retiring allowance to elderly members of the staff whose long and faithful service may have justified such consideration, but whose positions (unconnected with instruction and without curatorial title) do not fall within the provisions of the Harvard or Carnegie pension systems. (4) A competent clerical assistant who could be trained as a botanical bibliographer and in time relieve the Librarian from the onerous duty of carrying on the Card Index of New Genera, Species, and Varieties of American Plants, an undertaking of much practical importance in connection with the work of the Herbarium. (5) A greater freedom in employing the services of a skilled artist.

While these are the matters of most pressing importance in the normal development of the Herbarium, it may be said that added funds to increase fieldwork and exploration would be exceedingly welcome and useful, and that one or more fellowships established in the gift of the Herbarium would enable the establishment to place its resources, both of reference and instruction, more effectively at the service of young men of particular promise in systematic botany.

During the year 37 scientific papers and minor articles on the classification of plants have been published by the staff. A detailed index to the second volume of the Contributions from Gray Herbarium was also prepared, printed, and issued, greatly facilitating reference to these papers.

B. L. ROBINSON, *Curator*.

THE BOTANIC GARDEN

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor as Director to submit my tenth annual report on the Botanic Garden.

Material has been supplied to the classes in the usual manner and the collections have been freely drawn on for specimens needed in the research laboratories.

Mr. Robert Cameron, Head Gardener, who has been in charge of the Garden for thirty-one years, resigned in early July, 1919, to take a position on a private estate. It would have been wise to have retained his services had our financial capacity warranted an increase in his salary. In Mr. Cameron the Garden loses an exceptionally able horticultural botanist. His long experience with the botanical needs of the University made him an exceedingly valuable man.

The new Head Gardener, Mr. Joseph B. Reardon, received his early training at the Royal Gardens, Kew, England. Shortly after his arrival in this country he served on the Garden staff under the direction of Mr. Cameron and became familiar with the routine work that is done for the Botanical Department of the University. We were fortunate in being able to attract him to the Garden again as he enters on his duties with a very clear understanding of what he is required to do.

The collections are in excellent condition.

OAKES AMES, *Director.*

THE BOTANICAL MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor of presenting the following report on the condition of the Botanical Museum during the academic year 1918-19.

Continued uncertainty in regard to exchange of foreign botanical and economic specimens has still further reduced our supply of material for study and for exhibition purposes. It has been impossible to replace some of the important substances which have deteriorated during the past few years, and we must wait for better times to fill these gaps.

Fortunately we have been able to extend somewhat the scope of a few of our supplies and exhibits of domestic raw plant-materials and products, especially those which have been brought into increased prominence by the demands of war times. Certain new foods and food adjuncts have been installed in an attractive manner and have received attention from the visiting public and from our University students.

During the current year we have redistributed our exhibits of sugarcanes and sugars. For the greater part of our new specimens we are indebted to the kindness of Mr. Ballou, formerly an assistant in the department. His long residence in the Hawaiian Islands and, later, his connection with a sugar-trade journal in New York, enabled him to supply us with characteristic samples of different grades of commercial sugars.

We have had again to undertake costly repairs of some of our wooden cases. The rapid changes of temperature and of moisture in our large exhibition rooms have made havoc with many of the joints and the glazing. Such work of repair and reconstruction can be well done only by highly skilled labor. Hence we have been forced to make heavy outlays. Since we have absolutely no invested funds, we have had to rely upon the voluntary gifts of a few friends of the Museum. Without these gifts, for the most part unsolicited, it would have been impossible for us to keep the exhibition rooms in a creditable condition, and to supply our work-rooms with adequate material.

It is widely known that the usefulness of a Museum depends largely upon the character of the labels describing the specimens exhibited. The printing of such labels demands rather more time than can be secured economically in a job office, and therefore we have carried out our plan, mentioned in last year's report, of installing a small printing plant on our premises. The scheme has proved a distinct success. The assistant in charge, Mr. Louis C. Bierweiler, has been in service in the Museum for many years, and has now added to his other acquirements facility in printing our labels correctly.

The unique exhibit, known as the Ware Collection of Blaschka Glass models of Plants in Flower, possesses so much interest for the students and for the general public that we prepared and published three years ago a small pamphlet to answer most of the questions asked by visitors in regard to the origin and scope of the Collection. The pamphlets were placed in charge of the watchmen in the exhibition rooms, for gratuitous distribution. The explanatory sketch has proved so useful that we are now about to issue a third edition which is now being prepared for printing in our new printing plant. In the mean time we are employing an abbreviated sketch, of four pages, printed by Mr. Bierweiler.

Our collection of fossil plants has continued to receive care at the hands of Dr. Robert T. Jackson. The Curator regrets that he has not been able to remunerate Dr. Jackson by more than a small sum for his skilful and assiduous attention to the palaeontological collection.

The future of the Museum gives the Curator anxiety. In the nature of the case, it will be only a few years when he must relinquish charge of the collections which he has helped to bring together. On his retirement, it will be necessary to provide for the services of a paid curator, since it is not likely that any person can be found who would accept the position without salary. But as long as his health permits, the present Curator is happy to serve in this honorary capacity without remuneration.

The members of the Overseers' Committee on the Museum have evinced an active interest in the establishment by aiding the Curator in many ways. Their support and friendly counsel have been of much assistance in the development of our plans.

GEORGE LINCOLN GOODALE.

THE ARNOLD ARBORETUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit the following report on the progress and condition of the Arnold Arboretum during the year ending June 30, 1919.

The mild winter of 1918-19 and the abundant spring and early summer rains have improved many plants in the Arboretum and have healed some of the injuries caused by the unprecedented severity of the previous winter. Many plants have not before flowered so abundantly, and the Arboretum has attracted an unusually large number of interested visitors who have come from nearly every part of the country to enjoy and study the Arboretum collections.

After an absence of twenty-six months passed in eastern Asia, Mr. E. H. Wilson returned to the Arboretum on the 17th of March. He had passed 1914 collecting in Japan for the Arboretum and this last journey was undertaken for the purpose of exploring the forests and studying the trees of Korea, the Bonin and Liukiu Islands and Formosa, now parts of the Japanese Empire. From his last journey Mr. Wilson brought to the Arboretum 30,000 herbarium specimens, 700 photographs of trees and types of vegetation, and collections of seeds and living plants.

The Arboretum now offers excellent opportunities for the study of the trees and shrubs of eastern Asia. The great collections of dried plants made by Wilson and other officers of the Arboretum are supplemented by the largest collection of living plants of China and Japan in America, and by a large number of photographs of Chinese trees, of every native tree in Japan proper, Korea and the Bonin Islands, and of nearly all the trees of the Liukiu Islands and Formosa.

The botanical exploration of the Missouri-Texas region has been continued with good results by Mr. E. J. Palmer, and has been extended into southern Illinois. Mr. T. G. Harbison, continuing the work of previous years, has travelled extensively for the Arboretum in the southeastern states.

Few important additions have been made to the library during the year. Only 483 volumes and 110 pamphlets have been secured

for it. Among the additions the most interesting is a collection of Japanese works collected in Japan and Korea by Wilson during his last eastern journey. The library now contains 32,142 bound volumes and 8137 pamphlets. A classified arrangement and descriptive catalogue of the Arboretum's large miscellaneous collection of plant photographs has been commenced during the year.

During the year 10,635 sheets have been inserted in the herbarium, a somewhat larger number than it has received in any previous year. 1481 duplicate sheets have been sent to other botanical institutions.

The interchange of plants and seed with other horticultural and botanical establishments has been continued during the year. 13,696 plants, including grafts and cuttings, and 1422 packets of seeds have been distributed as follows: to the United States, 13,639 plants and 777 packets of seeds; to Canada, 54 plants; to Great Britain, 3 plants and 406 packets of seeds; to France, 156 packets of seeds; to Italy, 4 packets of seeds; to Algeria, 13 packets of seeds; to Egypt, 15 packets of seeds; to British India, 2 packets of seeds; to Japan, 37 packets of seeds; to China, 2 packets of seeds; to Australia, 2 packets of seeds; to Tasmania, 3 packets of seeds; to New Zealand, 5 packets of seeds. There have been received 4111 plants and 674 packets of seeds as follows: from the United States 3487 plants and 222 packets of seeds; from Canada, 7 plants; from Great Britain, 7 plants and 259 packets of seeds; from France, 37 plants; from Japan, 573 plants and 139 packets of seeds.

Instruction in dendrology has been given in the Arboretum during the year by Professor J. G. Jack who in May and June held weekly field meetings attended principally by teachers interested in trees. Several special students under Professor Jack's directions have made use of the laboratories of the Arboretum during a large part of the year.

For several years the usefulness of the Arboretum has been curtailed by its need of a publication through which information about plants, gathered in its laboratories and library could promptly reach the public. To overcome this difficulty the publication of the *Journal of the Arnold Arboretum* has been undertaken. This Journal is a small quarterly and in its pages will appear notes on trees and shrubs with descriptions of new species and their relationships, letters from correspondents and notes on the vegetation of the countries visited by officers and agents of the Arboretum. In its pages will be found items of news about the Arboretum, its

library, collections and plans which will be of interest to botanists, horticulturists and other friends of the institution. The first number of this Journal was prepared during the year but did not appear until July, 1919.

During the year 18 numbers of the *Bulletin of Popular Information* have been issued.

In making this report I must repeat what I have said in many previous reports, that the Arboretum owes its success to the small group of men and women whose generosity to this department of the University never fails. Their interest and their belief in the value of an institution like this has alone made its world-wide influence possible.

C. S. SARGENT, *Director*.

THE CHEMICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The adaptation of the University to the needs of the Students' Army Training Corps, followed by the influx of students connected with military organizations, resulted in a sixty per cent increase in enrolments in courses in Chemistry over those in 1917–18. But because the work was condensed and the year divided into three terms instead of the usual two, the whole course equivalent laboratory registrations, including research, were only fifteen per cent greater in 1918–19 than in the preceding year.

For the first time in the history of the Laboratory it was found necessary to open some of the rooms in Boylston Hall and the T. Jefferson Coolidge Jr. Memorial Laboratory for laboratory work in the evenings, as military schedules did not as a rule allow students a sufficient number of free hours during the daytime for the required amount of laboratory work. This increased use of the laboratories and the depletion of our service staff made working conditions more than usually adverse.

Boylston Hall continued to be sadly overcrowded. Its lack of proper facilities for efficient laboratory instruction in even the undergraduate courses was never more apparent than during this year when the entire University was devoting itself to the rapid equipment of men to meet the international crisis. Administration of the Laboratory was particularly difficult because so large a proportion of the income had to be used unproductively in maintaining an outgrown and outworn building. Furthermore, costs of labor and supplies continued to increase and offered still further interference with the maintenance of what should be the normal equipment of a university chemical laboratory at the present time.

Through the income from the gift of Alexis I. Du Pont to the Division of Chemistry money was available, for the first time in many years, for the purchase of greatly needed but costly laboratory supplies of a special nature, and for relieving research students from a portion of the excessive cost of laboratory work. This fund will make possible the use of modern and essential equipment in many important researches.

The work of the Harvard University Experiment Station, an official branch of the Chemical Warfare Service, until January was performed at the T. Jefferson Coolidge Jr. Memorial Laboratory, under the direction of Professors G. P. Baxter and E. P. Kohler. Until the first of December the work at the Wolcott Gibbs Memorial Laboratory consisted chiefly of the completion of the investigation of the constituents of cereals carried out by officers of the Sanitary Corps.

Of our teaching staff Professor Kohler continued in charge of Offense problems in the Chemical Warfare Service until December, when he again assumed his University duties in Cambridge; Assistant Professor Lamb continued as Lieutenant-Colonel, in charge of Defense Research; and Dr. Conant continued until January as Major, Chief of a unit in the Offense Chemical Research Section of the Research Division. Assistant Professor Jones remained in Washington as consulting chemist for the U. S. Tariff Commission.

The investigations carried out during the past year by members of the Division and their research students were as follows:—

Professor Michael continued his studies on the relation of structure to energy content in organic substances.

Professor Richards, in collaboration with Dr. J. Sameshima, determined the atomic weight of radio-active lead from Japan, and studied the compressibility of indium; with W. M. Craig and S. Boyer, the study of the purification of gallium by distillation as chloride and by electrolysis, respectively, was continued; with S. Boyer he also determined the surface tension of liquid gallium; with C. P. Smyth the study of concentrated thallium amalgams was continued; and with Dr. W. C. Schumb additional work was performed on the melting point of benzene, especially as affected by dissolved air and water. A further grant of \$2700 was received from the Carnegie Institution of Washington in support of these researches; and a welcome gift of \$5000 from an anonymous benefactor for immediate use added greatly to the possibilities of additional successful work in the immediate future.

Professor Kohler during the second half year investigated nitrocyclopropanes with L. I. Smith, catalytic oxidation with D. R. Merrill, and 1,5-diketones with E. C. Billings, Jr.

Professor Baxter with F. E. Rupert studied the determination of small amounts of cadmium in brass, and with E. O. Holmes began the investigation of silicon tetrachloride with a view to analysis.

Professor Henderson continued his researches on bread and bread-making in coöperation with the Bureau of Chemistry of the U. S. Department of Agriculture and the Division of Food and Nutrition of the Medical Corps of the Army. In this work he was assisted by Lieutenants E. J. Cohn, P. H. Cathcart, W. O. Fenn and J. D. Wachmann.

Assistant Professor Lamb's work with H. W. Sun on the determination of specific heats at high temperatures was continued. The experimental work was performed in one of the rooms of the Jefferson Physical Laboratory through the kindness of the Division of Physics.

Assistant Professor Forbes with O. J. Walker studied the action of thiosulphate on arsenate in acid solution; and with J. F. King thermal diffusion in water solution was investigated.

Assistant Professor Conant studied the interaction of phosphorus trichloride and unsaturated ketones; and investigated the addition of phosphorus trichloride to aldehydes and ketones with A. D. MacDonald, and the preparation of mesityl oxide with N. Tuttle.

Dr. Hill commenced an investigation of the constitution of the yellow coloring matter in the dandelion blossom. With H. W. O'Neill he studied the preparation and reduction of benzalpinacoline; and with S. Norman he investigated the preparation of isomeric octanes and syntheses of cyclobutanone.

WILLIS A. BOUGHTON,

Assistant Director.

THE JEFFERSON PHYSICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The outstanding fact in the history of the Department of Physics during the past year is the death of Professor Sabine, a heavy loss to this Department, to the University, and to the world at large; for the problems on which he was engaged with every prospect of success affect the comfort and convenience of millions. It is to be hoped that the investigations, undertaken now by his kinsman, Dr. Paul Sabine, will in time reach the complete fruition to which he looked forward with so much confidence and joy.

During the early part of the year 1918-19, the first care of the Department of Physics was to provide elementary instruction, with laboratory exercises, for the hosts of the S.A.T.C. Both Professor Hall and Professor Sabine, for all the other professors who give routine courses were absent at the beginning, felt that work not immediately demanded for a military purpose should take second place, though they found it practicable to give some comparatively advanced courses. With the help of younger men, drawn into our service from other institutions or from the Graduate School, they carried on the work vigorously, if not with the most satisfactory academic results. Research was almost entirely confined to the field of Radioactivity and X-Rays, in which Professor Duane kept one or two Chinese or Japanese students engaged. About the middle of the year most of the teaching staff returned to the Department, and considerable progress was made toward the restoration of normal conditions, though the death of Professor Sabine, in January, added greatly to the difficulties of the situation.

The financial condition of the Laboratory, to which attention has been called in former reports, now bids fair to become acute. High cost of living has made it necessary to materially increase the wages of the staff, while high cost of materials and the increasing outlay involved in keeping the equipment of so old a building up to modern standards require the expenditure of considerable sums. The Laboratory will probably face a deficit of nearly seven thousand dollars at the close of the next academic year.

Respectfully submitted,

THEODORE LYMAN, *Director.*

THE CRUFT LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — Up to January 1, 1919, the teaching force of the Cruft Laboratory were chiefly engaged in scientific work with the Army and Navy.

Professor E. L. Chaffee, accompanied by Assistant Mechanician Mr. M. W. Carley, was in France and England until the middle of December engaged in demonstrating and testing a new type of radiotelegraphic system that could not be heard or interfered with by the enemy. This apparatus had been developed and partly constructed at the Laboratory by Professor Chaffee and Mr. R. F. Field. At the present time Professor Chaffee and Mr. Field are still engaged on improvements of this system. The work is to be continued in the interest of the American Coast Artillery, who have drawn up a proposal approved by the President of the University for the continuation of the work.

Until January, 1919, the Director of the Laboratory was at New London, Conn., engaged on Submarine Detection Devices and Aids to Navigation. He developed a type of electric search gear used as standard on all American Submarine Chasers; also a method of electric compensation for determining the direction of submarine sounds. This latter instrument is a part of a system of submarine sound reception which is used in conjunction with devices invented by Professor Max Mason of Wisconsin University and Professor H. C. Hayes, a Harvard Ph.D., to form an equipment that has proved to be of importance as an aid to navigation in time of peace. The system has been installed upon a number of transports and naval vessels and will probably come into general use to enable vessels to hear each other under water so as to prevent collision in fogs, and to hear also certain underwater signals installed at ports so as to permit a correction of the course on entering harbors. These listening devices permit a very accurate determination of direction of the source of sound.

Mr. R. F. Field, Instructor of Physics, gave at the Laboratory from September to December, 1918, part of a course on Radio Telegraphy to men enlisted in the Signal Corps.

Mr. Y. C. Wen, a Graduate Student, carried on a research on Measurements of Antenna Resistance and Standardization of

Wavemeters. Mr. Field has continued his work on Resistance Losses in Inductances and Condensers. Professor Chaffee has continued work on Gaseous Detectors. Professor Pierce has finished the writing of a book on the mathematical theory of Electric Oscillations and Electric Waves, which is now in press.

In the opinion of the Director the proposal of the Signal Corps of the Army to establish a unit here should be approved so that the Laboratory may keep in touch with matters of practical importance in this field of communication engineering.

In order to meet the strong competition of other educational institutions in applied physics, the equipment and facilities of the Laboratory should be considerably increased. The annual appropriation to the Laboratory, which has heretofore seemed to be as large as we should expect, has not permitted material additions to our equipment; so that the need of additional resources has come to be pressingly felt.

G. W. PIERCE, *Director*.

THE PSYCHOLOGICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — Owing to the depletion of the staff only the most essential courses in psychology were given during the year. The department felt the loss, through resignation, of Professor E. B. Holt. Dr. H. E. Burt conducted the training course and assisted in the laboratory until he left for military service. He was succeeded by Dr. R. C. Givler. In order to meet the demands of students entering college after the armistice the elementary course in psychology was continued throughout the year, the work of the last semester covering the field of applied psychology. In the second semester the enrollment in the elementary course was almost normal. The number of students doing advanced research work in the laboratory was above the average of previous years.

The experimental investigations in human psychology were as follows:— Mr. F. H. Allport completed his analysis of the social factors which enhance or retard the various mental functions. Mr. R. A. Cutting finished his study of the will process with special reference to the time factor in the act of choice. Both men received the Ph.D. degree. Dr. A. A. Roback commenced a study of the conscious elements of belief on the basis of introspection. Mr. Y. Tang continued his experiment on the factors underlying the rapid perception of colors and shapes. Mr. F. Azárraga correlated the pleasantness and unpleasantness of aesthetic reaction with the fertility of imagination. Mr. W. G. Currie started an experiment upon an analysis of experience of cross rhythms with special reference to musical appreciation. Mr. S. C. Roth worked upon the establishment of a conditioned reflex in the human organism. The first phase of Mr. S. D. Robbins' work upon the emotional disturbance in stuttering was completed and has appeared in the *American Journal of Physiology*. Mr. L. Richardson made a minor study of the transfer of learning in army signalling. Miss E. Williams worked upon another aspect of the same problem. Miss G. Taylor determined the effect of deception upon the ratio of inhalation to exhalation in breathing. Dr. H. E. Burt devised a new apparatus for recording this ratio. Miss M. Davidson studied the various forms of motor learning in the continuous

choice reaction. Miss K. Day developed a method of using standardized colored lights to establish a norm of color preference.

The investigations in educational psychology under Professor Dearborn were as follows: Mr. R. A. Patterson completed an experimental study of the teaching of handwriting in the elementary schools. Mr. L. A. Maverick completed the study of group measures of the intelligence of fourth grade children. Mr. L. G. Nourse made a study of prognostic tests of the mathematical ability of High School students and Mr. T. K. Fisher of language tests in the High School. The laboratory of educational psychology continued its coöperation with the public schools in the work of examining retarded and mentally deficient children.

HERBERT S. LANGFELD, *Director.*

THE OBSERVATORY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The Astronomical Observatory has suffered an irreparable loss during the past year through the death, on February 3, of Edward Charles Pickering, for forty-two years its Director. Under his control, the Observatory became "preëminent in America, and in certain fields leader of the world," and he came to be regarded as "The Dean of American Astronomy." Outlines of his life and work have been published in many scientific journals.

Notwithstanding the energy and promptness with which observations were prepared for publication under his superintendence, a large amount of material remains, which is practically ready for the printer, but which cannot be published as rapidly as is desirable for want of funds. The demand for the six remaining volumes of the Henry Draper Catalogue is insistent, and provision should soon be made for three additional volumes of Kapteyn's "Selected Areas." Several other volumes of miscellaneous astronomical researches and meteorological observations are also ready for printing. The prompt publication of all this material is necessary in order to complete worthily the great life work of the late Director. This would require, owing to the increased cost of printing, a sum of about fifteen thousand dollars, in addition to the regular income of the Observatory.

An attempt has been made during the year to render more systematic and effective the photographic survey of the Milky Way for the discovery of Novae and other interesting objects. The plan includes the prompt examination of photographs of small scale made both at Cambridge and Arequipa, in order to establish definitely, through a limited period, perhaps, the number of such new stars above a certain magnitude. Their discovery hitherto has been largely a matter of chance, and in general confined to naked-eye stars. The present investigation extends to the ninth magnitude. New stars, so far as known, occur only in or near the Milky Way. Two new stars have been thus discovered, one by Miss Joan C. Mackie and one by Miss Ida E. Woods, in addition to a number of new variables.

The two astronomical fellowships for women have been filled by Miss Dorothy W. Block and Miss Mary D. Applegate. Toward the end of the year, Miss Block was called to a position at the Yerkes Observatory, and the fellowship was assigned to Miss Antonia C. Maury, who is engaged in a study of the spectroscopic binaries discovered at this Observatory.

Dr. Joel H. Metcalf, during his summer vacation at South Hero, Vermont, made a remarkable record by the independent discovery of three comets within two days, with a telescope made by himself. One of these comets had been observed several days earlier in Europe, and another is probably Brorsen's Comet of 1847, whose rediscovery at this time is an event of unusual interest.

HENRY DRAPER MEMORIAL

The publication of the Henry Draper Catalogue has made steady progress. Three volumes have now been issued. Of the remaining six, one is in type and the other volumes can be made ready for the printer as rapidly as the necessary funds are available. Miss Cannon, in addition to supervising the publication of this Catalogue, has completed investigations regarding the spectrum of Nova Aquilae, No. 3, stars of composite spectra, and spectra of the variable stars of long period. She is also engaged in a study of the spectra of red stars.

The photographic observations at Cambridge remain under the direction of Professor King. The total number of plates exposed at Cambridge was 5,166, of which 4,700 were photographs of the stars. The number of successful plates made with the 16-inch Metcalf Telescope for the position of the Moon was 79.

Measures for the determination of the light of the sky have been continued, using both blue and yellow light.

The discussion of the work already done in obtaining photo-visual magnitudes of stars and planets by the out-of-focus method has been completed. The paper includes the determination of the color index, not only of the bright planets but also of Nova Aquilae, No. 3. Similar work has been begun on a more extended list.

A new method has been devised of converting sidereal to Greenwich mean time, expressed in thousandths of a day, corresponding to the middle time of exposure. By this method, the speed of reduction is more than doubled.

BOYDEN DEPARTMENT

The Arequipa Station has been under the charge of Mr. F. E. Hinkley, who has been assisted by Señor J. E. Mufiz. The 10-inch Metcalf Telescope has been employed in making the plates in blue and yellow light necessary for the extension of photographic and photovisual magnitudes to the southern stars. Considerable work has also been accomplished with the Bruce 24-inch and the Boyden 13-inch Telescopes, as well as with smaller instruments. The whole number of plates made at Arequipa during the year was 3,308.

The Mandeville Station in Jamaica has continued under the direction of Professor W. H. Pickering, who reports that the regular observations of the ellipticities and position angles of the elongated disks of Jupiter's four larger satellites have been maintained. Special studies have been made of the seasonal changes occurring in the lunar crater Eratosthenes, consisting mainly of the development of the various fields and canals, and the shifting location of the latter. An investigation of the numerous small snow fields lying near Conon has been undertaken, and the usual dates of appearance and disappearance of each have been determined.

While the evidence is against the duplication of the canals of Mars, and each of the observers this past year has expressed the view that the appearance was simply an illusion, yet oddly enough certain of the canals occurring in the snow craters of the Moon are either really double, or else appear to be so by contrast with the snow. The widest and most clearly marked parallel pair so far detected lie in a craterlet on the rim of Posidonius, its breadth being $0''.6$ or about 3,600 feet. It is only double near the full, and its duplication is without doubt the most difficult test for definition yet investigated upon the Moon.

Only one Report was issued this year on the observations of the International Associated Observers of Mars. As many as twenty-five well-known canals were seen by at least six observers, and eighty-three were seen by as many as two. Some of the latter were very difficult, and only temporary. The chief ones have been found to shift over the surface, in a manner agreeing with predictions previously published. The positions of twenty-six lakes were determined, and confirmed by at least two observers.

BLUE HILL METEOROLOGICAL OBSERVATORY

The observational and routine work of the Observatory has been carried on without a break. Records covering a period of thirty-four years are now available for the elements of pressure, temperature, humidity, precipitation, sunshine, day and night cloudiness, wind direction and velocity. The data for the civil year 1918 have been published in the usual form in H.A. 83, Part 3. There were no special papers published, but material is now available for memoirs on cloud measurements, humidity, and wind velocities at flying levels.

Several new instruments have been devised, one in particular, an absolute humidity recorder which should prove a valuable instrument in astronomical observatories, since it gives a continuous record of actual and sensible temperatures and both relative and absolute humidities. Such instruments in the dome of an observatory might help to throw light on some of the questions connected with good seeing.

PHOTOGRAPHIC MAGNITUDES

This work has continued under the direction of Miss Leavitt. The 16-inch Metcalf Telescope continues to be used for plates, taken in series, which give the means of comparing all parts of the sky, visible in Cambridge, with the North Pole. The 10-inch Metcalf Telescope has been used in Arequipa for similar work, replacing the 8-inch Bache Telescope. All parts of the southern sky are compared with Harvard Standard Regions having centres at the declination $+15^\circ$. Both instruments are equipped with diffraction gratings, giving an independent measure of the scale of magnitudes. The measurement of sequences on series plates has been practically completed for the fifty Harvard Standard Regions with blue and with yellow light, for the 252 Selected and Special Areas of Kapteyn with blue light, for the 216 selected regions in overlapping zones of the Carte du Ciel with blue light, and for many special objects with blue and with yellow light. Measures for catalogues of stars brighter than the eleventh magnitude in regions four degrees square have been completed for each of the thirty-six Harvard Standard Regions north of the equator. Two plates with blue and two with yellow light are measured for each region. These will give photographic and photovisual magnitudes for about 11,000 stars. A beginning has been made on simi-

lar catalogues for regions south of the equator. The determination of the magnitudes of comparison stars for variables and the study of their light curves continues to be an important feature of the work of this department. Many requests for information concerning new or suspected variables have been answered. Owing to conditions brought about by the war, the number of assistants has been reduced, and the volume of observations is somewhat smaller than that reported last year. They include about 50,000 measures of the brightness of stars in sequences and catalogues, about 24,000 estimates of the brightness of Novae and variables, and about 3,500 measures of the brightness of asteroids. A card catalogue which will contain information regarding every star whose magnitude is determined from the photographs is in preparation. The whole number of stars whose magnitudes have been derived from two or more blue plates is now in the neighborhood of 30,000.

VARIABLE STARS

Systematic visual observations of variable stars have been continued by Mr. Leon Campbell, who also has supervised the observations received from the members of the American Association of Variable Star Observers, and others in foreign countries. Professor Mitchell, Director of the McCormick Observatory, Professor Wilson, of the Goodsell Observatory, and Professor Parkhurst, of the Yerkes Observatory, by their coöperation with large telescopes, have furnished much needed magnitudes of faint variables near minimum. The light curves derived from all these observations are more complete than ever before.

Mr. Campbell has attempted, also, to follow the variables with the 15-inch Telescope, when too faint to be observed with smaller instruments, or when other observations were lacking. With the photometers attached to the 12-inch and 15-inch Telescopes, he has secured 8,474 settings, of which 3,680 were of Algol and short period variables, 1,872 of the minor planets for evidence of variability, 1,152 of the long period variables, and 546 of Nova Aquilae, No. 3. A discussion of the light curve of this new star is in process of publication. For it, 6,137 observations were received from 240 observers in 29 countries.

The discussion of the observations of long period variables for the years 1905 to 1917, inclusive, is well advanced. For this purpose, Mr. C. L. Brook, Secretary of the Variable Star Section of the British Astronomical Association, has furnished much valuable

material. In all, 16,941 visual observations have been made or received here, distributed as follows: —

F. C. Butterworth, 1,427; W. J. Luyten, 1,236; C. Y. McAteer, 1,208; J. F. Skjellerup, 1,125; L. Campbell, 1,016; T. C. H. Bouton, 838; J. M. Baldwin, 792; A. W. Long, 782; B. H. Dawson, 775; McCormick Observatory, 745; L. C. Peltier, 590; H. C. Bancroft, Jr., 587; Ed. de Perrot, 514; N. Tapia, 506; D. B. Pickering, 495; H. C. Wilson, 445; A. S. Young, 438; Ed. de Janczewski, 367; C. S. Mundt, 333; S. C. Hunter, 268; C. T. Whitehorn, 245; G. Houdard, 238; H. W. Vrooman, 209; I. L. Murray, 150; B. Berloty, 109; G. B. Lacchini, 105; H. Thomson, 103. Besides these, 1,390 observations were communicated by 46 observers, each of whom made less than 100 estimates.

About four hundred photographic charts of variable star regions have been furnished to observers, chiefly in the southern hemisphere. All descriptive data are now marked on enlarged negatives, so that paper prints made from them are ready for the observer without additional marking. This work has been done for the most part by Miss Mabel A. Gill, and will be the means of saving considerable labor in the future.

Mr. Howard Eaton, a graduate student of the University, has undertaken the photometric determination of new sequences for additional variable stars. His work is that of a volunteer observer.

The study of globular clusters has been extended by the aid of Miss Woods, who has found two open clusters to be rich in variables, N. G. C. 3201 and N. G. C. 6362. They contain fifty-six and fifteen variable stars, respectively. Very few globular clusters now remain in which stars brighter than the sixteenth magnitude have not been examined.

MISCELLANEOUS

Phillips Library. — The Library has increased during the year by the addition of 609 volumes and pamphlets, making the total number at the present time 56,316.

Telegraphic Announcements. — Nineteen announcements of astronomical discoveries have been sent to Europe and South America. Code messages, which were not permitted during the war, are again in use. Cablegrams addressed to "Observatory, Boston," and telegrams to "Harvard College Observatory, Cambridge, Mass.," are given all desired distribution in this country and abroad.

Twenty-five Bulletins have been issued, making 694, in all. These Bulletins supplement the cablegrams and telegrams, but contain much additional information. Telegrams are sent at cost to subscribers, who receive the Bulletins without extra expense.

Publications. — The following Annals have been issued during the year: — **78**, Part 3, Variable Stars in the Cluster Messier 15; **81**, No. 1, Proper Motions of Stars in the Zone $-9^{\circ} 50'$ to $-14^{\circ} 10'$; **82**, No. 1, The Harvard Station in Jamaica; **82**, No. 2, Measurement of Close Double Stars with a Small Telescope; **83**, No. 3, Observations and Investigations made at the Blue Hill Meteorological Observatory in the year 1918; **85**, No. 1, Standards of Magnitude for the Astrographic Catalogue; **92**, The Henry Draper Catalogue, 4^a, 5^a, and 6^a; **93**, The Henry Draper Catalogue, 7^a and 8^a. Printing has been begun on several other volumes of the Annals, and, as indicated at the beginning of this report, about twelve volumes are nearly or quite ready for the printer. Nine circulars have been published during the year, as follows: —

- 211. Globular Clusters. October 31, 1918.
- 212. Maxima in 1919 of Variable Stars of Long Period. November 6, 1918.
- 213. Publications issued in 1918. January 1, 1919.
- 214. Astronomical Fellowships for Women. March 29, 1919.
- 215. Perturbation of Neptune. May 1, 1919.
- 216. Variable Stars in the Cluster N. G. C. 3201. May 24, 1919.
- 217. Variable Stars in the Cluster N. G. C. 6362. June 24, 1919.
- 218. 10 New Variable Stars in Harvard Maps 25 and 28. August 14, 1919.
- 219. 200317. Nova Sagittae. H. V. 3518. September 18, 1919.

S. I. BAILEY, *Acting Director.*

THE BLUE HILL OBSERVATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— During the first half of the college year, the resources of the Observatory were employed primarily in the training of aerographers for the United States Navy. After the sea fight off Jutland, naval authorities realized the importance of a better knowledge of air structure, from the sea surface up to say six or even nine kilometers. The phenomenal development of aviation also called for knowledge of weather conditions at flying levels; and so at every naval air station it became necessary to utilize the services of a competent aerographic officer. Long range high angle fire also requires data concerning air densities and so-called ballistic winds at high levels.

As stated in the report for the preceding year, the Director of the Observatory was intrusted with the organization of the Navy's aerographic section. In all, 58 graduates of American Universities reported at Blue Hill for instruction. Of these, 52 received commissions. Nearly 30 including the Director served at foreign air stations and the others at home stations. The work of instruction for the Navy terminated soon after the cessation of hostilities, although the Director remained on active duty until after the flight of the N. C. boats across the Atlantic, personally supervising the forecasts for the flight, from Rockaway to Halifax and from Halifax to Trepassey Bay.

In letters (copies of which are appended), the Secretary of the Navy has expressed appreciation of "the assistance given by the Blue Hill Observatory not alone to the Navy but to the scientific world generally." The Assistant Secretary, Mr. Franklin D. Roosevelt who was directly cognizant of what was attempted, says "the fact that at the present time the aerographic work in the Navy in equipment and personnel is abreast of that of the British Navy is a sufficient commentary on your efforts." The Superintendent of the Naval Observatory also expresses the appreciation of that institution for such assistance as we were able to give.

In addition to the courses for aerographic officers, instruction was given to 4 undergraduates and one graduate student.

The regular observational work of the Observatory has been continued, and with the completion of 1919, will afford an unbroken record for a period of 34 years, constituting one of the most valuable series of climatic observations made in the United States.

Several new instruments have been added to the equipment, notably an absolute hygrograph and a pressure tube anemometer, a modification of Dine's anemo-biograph. This instrument like the anemo-cinemograph gives what may be called a record of the gustiness as compared with the older instruments giving only a summed-up air flow and indicating little if anything of what Professor Langley termed "the internal work of the wind."

Experiments with a new form of psychrometer have been made and a simpler and more accurate method of obtaining both relative and absolute humidities devised. A new method of measuring cloud heights and velocities has been developed and used with much satisfaction.

The expenditures for the year were slightly (\$81.51) above the income. The income, however, was nearly \$4,000 less than heretofore. The deficit this year would have been much larger but for the fact that fully half of the Director's salary came from outside sources. Extensive repairs will be needed during the coming year.

To enable the Observatory to carry on the work properly, and permit of a moderate expansion, the endowment fund, now \$85,000, (an increase of \$35,000 in the past six years) should be trebled.

ALEXANDER McADIE, *Director.*

APPENDIX TO THE BLUE HILL OBSERVATORY REPORT

NAVY DEPARTMENT
WASHINGTON

September 19, 1919

SIR:

I am in receipt of your letter of August 20, 1919, in which you request that certain instruments belonging to the Navy Department, which were installed in the Blue Hill Observatory during the war for the purpose of training aerologists for the Naval Air Service, be allowed to remain at Blue Hill.

I beg to inform that the Navy Department has decided to grant your request pending further developments in the matter of future training of Naval personnel in Aerology.

The Department fully appreciates the assistance that has been given by the Blue Hill Observatory, not alone to the Navy but to the scientific world generally. The removal of the instruments will be effected, if at all, only for the purpose of using them elsewhere when urgently needed.

The Department hopes that in case it becomes necessary to transfer the Navy material from Blue Hill, the pleasant relations existing between the Navy Department and yourself and your staff will continue as heretofore.

Sincerely yours,

JOSEPHUS DANIELS.

PROF. ALEXANDER McADIE,
Director, Blue Hill Observatory,
Readville, Mass.

NAVY DEPARTMENT
WASHINGTON

June 5, 1919

MY DEAR COMMANDER McADIE:

I am informed by the Director of Naval Aviation that your request of April 19, 1919, for inactive duty was referred to the Bureau of Navigation, which has final cognizance of these matters, with a recommendation that it be approved and to become effective upon completion of your duty in connection with the trans-Atlantic flight. That duty has been completed, and your inactive duty orders were forwarded on May 29th.

I wish at this time to express my deep appreciation of your interest, efforts, and results of your service in this war. The fact that at the present time the aerographic work in the Navy in equipment and personnel is abreast that of the British Navy is a sufficient commentary on your efforts.

My best wishes for continued success in your work.

Sincerely yours,

FRANKLIN D. ROOSEVELT,
Assistant Secretary
of the Navy.

LIEUT. COMDR. ALEXANDER McADIE,
Blue Hill Observatory,
Readville, Mass.

NAVY DEPARTMENT
U. S. Naval Observatory
WASHINGTON, D. C.

September 8, 1919

Enclosure.

SIR:

I beg to thank you for your letter of August 30, 1919, in which you state that we may consider ourselves at liberty to call upon you for advice and information in connection with aerographic work.

The Naval Observatory appreciates very much what you have done personally for the Navy and what has been done by the staff of the Blue Hill Observatory, not only in connection with the training of aerographers for the flying corps, but in reference to aerography in general. In particular we are grateful for the benefits of your experience which you have so kindly given to the Naval Observatory from time to time both through personal visits and correspondence.

So far as the Naval Observatory is engaged in scientific instrument work, we will be glad to maintain the pleasant and helpful relations existing with Blue Hill, relations which are sure to be of benefit to the Navy, and we hope of mutual advantage.

I am glad to think that the Navy is coming to realize the importance of scientific study of weather conditions at sea and in the air. In bringing about this state of mind, your influence has been very great.

I hope you will visit the Naval Observatory whenever you feel so inclined.

The question of Navy instruments at Blue Hill will be taken up in separate correspondence.

Yours very truly,

J. A. HOOGWERFF,
Rear Admiral, U. S. N.
Superintendent.

PROF. ALEXANDER MCADIE,
Director, Blue Hill Observatory,
Readville, Mass.

THE MUSEUM OF COMPARATIVE ZOÖLOGY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — During the academic year 1918-19, most of the instruction and the opportunities for research in Zoölogy, Geology, and Geography offered in Harvard University and in Radcliffe College were given in the Laboratories and Lecture Rooms of the Museum.

In Zoölogy fourteen courses or half-courses were taken by 222 students in Harvard University and six courses or half-courses were taken by 81 students in Radcliffe College.

In 1917-18 these courses and students were: —

Harvard: — 16 courses, 263 students.

Radcliffe: — 10 courses, 121 students.

In Geology and Geography fifteen courses were given in Harvard University and two courses were given in Radcliffe College.

The number of students taking these courses was 190 in Harvard University and 23 in Radcliffe College.

In 1917-18 these courses and students were: —

Harvard: — 11 courses, 372 students.

Radcliffe: — 2 courses, 24 students.

A bequest of \$1,000 has been received from the estate of the late Thomas St. John Lockwood. The bequest is made in memory of Samuel Lockwood who aided Louis Agassiz in his ichthyological work for several years (1868-72).

Gifts for current use received from Dr. Thomas Barbour, Mr. C. P. Bowditch, Governor W. Cameron Forbes, and Mr. George Wigglesworth are acknowledged with thanks. To Dr. Barbour the Museum is also indebted for the plates illustrating the Herpetology of Cuba (Mem. M. C. Z., 47, no. 2).

No extended fieldwork was undertaken during the year. Through the courtesy of Dr. A. G. Mayor (formerly Mayer), the Director of the Marine Laboratory of the Carnegie Institution of Washington, Professor Daly spent some weeks in Florida and also among the Samoan Islands. In Florida his work included a study of coral reefs, and in Samoa he made a large collection of igneous rocks and investigated the volcanic geology of the several islands visited.

Mr. W. S. Brooks made considerable collections in the Isle of Pines, and later in the year transferred his field of work to extreme

southern Florida, where, in coöperation with Dr. Barbour, he collected reptiles and mollusks, among the latter a very large series of *Liguus*.

Mr. George Nelson of the Museum staff spent several months in Florida collecting mammals, reptiles, and fishes in and about Sebastian; his work included, in addition to the material for the research collections, a number of vertebrates for exhibition.

Always fortunate in having much voluntary service, the Museum records its obligations for assistance in several departments:— to Messrs. F. H. Kennard and T. E. Penard (ornithological department); to Dr. G. M. Allen (herpetological collections); to Professor W. M. Wheeler and Mr. A. C. Kinsey (entomological department); to Miss E. B. Bryant (arachnids); and to Dr. R. M. Field and Mr. T. H. Clark (fossil invertebrates).

The Harris collection of Tiger beetles (*Cicindelidae*) constitutes the year's most important accession. Edward Doubleday Harris, the son of Thaddeus William Harris, the author of the classic, "Insects Injurious to Vegetation," and also Harvard's Librarian, 1831–56, died in Yonkers, N. Y., March 2, 1919. Born in Cambridge, September 20, 1839, a latent love of nature was developed somewhat late in life, as his manhood was engrossed with large financial trusts and his principal inherited interests were historical and genealogical. Selecting a single family of beetles for an avocation, Mr. Harris took up their study with great enthusiasm, and by his personal work, a careful system of exchanges, and the judicious purchase of material, got together a very large and valuable series of species from all parts of the world. The entire collection is in excellent condition, well identified, thoroughly catalogued, most neatly relabeled and with the original labels in all cases carefully preserved. In connection with his work, Mr. Harris carried on an immense correspondence, which, with his notes and unpublished illustrations, was bequeathed with the collection to the Museum.

To Col. John E. Thayer the Museum is indebted for the original specimen of Parkman's Wren (*Troglodytes parkmanii*), a specimen of scientific and historic interest. Collected by J. K. Townsend along the banks of the Columbia, and described by J. J. Audubon in 1839, the specimen was presented by Audubon to Dr. George Parkman of Boston, and later acquired by Colonel Thayer. It is in good condition, mounted on a twig with artificial accessories, and contained in a box of paper and glass, evidently contemporaneous with the date (1841) when Audubon

wrote Parkman that the specimen "well mounted will soon be on your chimney mantle." With the specimen, Colonel Thayer gave Audubon's letter.

The Museum is indebted to Miss Elizabeth Harris, representing the heirs of T. W. Harris, for the plates of the latter's "Insects Injurious to Vegetation"; to Mr. A. B. Howell for a series of Californian mammals and birds; to Mr. F. H. Kennard for several North American birds; to Dr. Thomas Barbour for very many mammals, birds, reptiles, fishes, and various invertebrates; to Dr. Malcolm Smith for a fine series of Siamese reptiles; to Professor W. M. Wheeler for series of ants and arachnids; to Mr. B. Preston Clark for several Hawk moths (Sphingidae) and a number of arachnids, myriopods and insects from the Philippines; to Mr. W. A. Hilton for annelids from southern California; to the U. S. Coast Survey and the U. S. Bureau of Fisheries for a series of Medusae and Siphonophorae from the western Atlantic; to the Canadian Government (Geological Survey) for a series of Medusae from the Arctic coasts of Canada and Alaska, and to Mr. J. H. Brady, Jr., for an exhibition specimen of Upper Ordovician seabottom.

The F. E. Melsheimer papers acquired during the year consist of numerous note-books, lists, and catalogues, many of which relate to the first large collection of insects brought together in the United States more than 143 years ago by Rev. F. V. Melsheimer, the father of Dr. F. E. Melsheimer, whose collection was purchased by the Museum in 1864. The Melsheimer papers include numerous letters from S. S. Haldeman, the Lecontes, J. G. Morris, and other early students of North American insects.

Of the more important accessions received during the year, mention should be made of a series of 105 skins of forty-seven species or subspecies of birds, mostly collected by C. H. Townsend in Polynesia. Mr. Townsend was naturalist during a part of the time, August, 1899, to March, 1900, that the *Albatross* was engaged in exploring the Tropical Pacific under the direction of Mr. Agassiz. Other accessions include a small series of fossil vertebrates from the Niobrara Cretaceous of Kansas; this series includes the entire wing of a Pterodactyl, sixty-one inches in length with the carpals in place, a fine exhibition specimen; also a rare species of *Saurocephalus* with the skull in exceptional condition for study; a collection of Cynipidae (84 types) purchased of Mr. William Beutenmüller.

From the American Museum of Natural History the Museum has received in exchange a fine series of reptiles collected during their Congo expedition and a series of 116 species or subspecies, over 300 specimens, of Colombian birds.

Dr. G. M. Allen, employed for three days weekly, spent a large part of the time on the collection of fossil mammals, material chiefly from the tertiaries of Kansas, Nebraska, and the Dakotas, gathered more than thirty years ago and in large part unstudied. More than 2,000 specimens of this material have been worked out from the matrix, cleaned, repaired, catalogued, and as far as possible, identified. A few ungulate groups are still unstudied. Of recent mammals some desirable species, new to the collection, have been given by Dr. Thomas Barbour, and received in exchange with the U. S. Biological Survey. The collection of skins of the smaller mammals is in most excellent condition, a result largely due to the skill and industry of Mr. A. B. Fuller. Dr. Allen's time for research has been devoted to a study of the skeletal remains of aboriginal dogs of America.

The status of a museum collection is best recognized, when on the completion of a taxonomic study of the larger part of it, a catalogue briefly noting the species, number of specimens, and localities, is brought together and printed. Such a catalogue of the Museum's Amphibia caudata (salamanders and newts) prepared by Mr. E. R. Dunn and published as Bull. M. C. Z., December, 1918, 62, p. 443-472, records eighty-six species or subspecies, a number since increased to 104, somewhat more than two-thirds of the recognized forms.

Mr. Alvin Seale worked for four months upon the Museum collection of Clupeoids, a group of widely distributed fishes of considerable importance commercially. He prepared a descriptive list of the Museum series which contains about 175 species represented by more than 4,000 specimens.

Mr. W. F. Clapp has continued his work upon the collection of mollusks throughout the year, dividing his time between the preparation of a report upon the series of shells from the Solomon Islands collected by Dr. W. M. Mann, and the identification, registration, and arrangement of the accessions received. These accessions have been very numerous; the more important are the Gulick series of Hawaiian land shells (Achatinellidae), received from the Boston Society of Natural History; a very large series of *Liguus* from southern Florida, many Cuban land shells and several hundred choice species from Japan and the Solomons, all the gift of

Dr. Thomas Barbour. A number of species of *Liguus* received in exchange from the Academy of Natural Sciences of Philadelphia supplements the Museum series.

Professor Raymond has completed a monograph on the appendages of the trilobites and worked up the large series of trilobites from Newfoundland collected in 1918 by Professors Schuchert and Dunbar; in connection with this work, he has described such trilobites as proved to be new that were collected in 1918, during the Shaler Memorial expedition in southwestern Virginia and eastern Tennessee. In return for Professor Raymond's work upon the Newfoundland trilobites, the Museum receives, through the courtesy of Professor Schuchert, a large number of species at present unrepresented in its collection.

The Library contains 55,804 volumes and 57,708 pamphlets; 620 volumes and 1,900 pamphlets have been received during the year.

The publications of the year include one volume and four parts of volumes of the *Memoirs*, thirteen numbers of the *Bulletin* and the *Annual Report*, a total of 1,374 (872 quarto and 502 octavo) pages, illustrated by 159 (135 quarto and 24 octavo) plates. The volume of *Memoirs* contains Dr. Chamberlin's Report on the polychaete annelids collected during Mr. Agassiz's *Albatross* expeditions of 1891, 1899-1900, and 1904-05. This memoir, published as one volume of text (514 pp.) and one of eighty plates, gives a taxonomic account of 162 forms, of which 118 are described for the first time. Two numbers of the *Memoirs* complete two additional volumes; one (vol. 35, no. 5), by Dr. F. M. MacFarland, includes an account of a small subfamily (*Dolabellinae*) of mollusks obtained during the 1899-1900 cruise of the *Albatross*, and in another number (vol. 45, no. 2), by Professor Harold Heath, the *Solenogastres* of the eastern coast of North America are described and figured.

Mr. Sayles's *Memoir* (vol. 47, no. 1), *Seasonal Deposition in Aqueo-Glacial Sediments*, is the first quarto publication of the Museum of a purely geological nature published for more than thirty years. The *Reptiles and Amphibians of Cuba* by Dr. Thomas Barbour and Mr. C. T. Ramsden constitutes the subject matter of the second number of vol. 47, a memoir of 148 pages with fifteen plates. Five numbers of the *Bulletin* contain reports based on Museum collections; three are Contributions from the Entomological Laboratory of the Bussey Institution, the collections reported upon being in part Museum material; three *Bulletins*

contain reports upon fieldwork undertaken for the Museum; one is an annotated list of the *Amphibia caudata* contained in the Museum; and one is a Contribution from the Zoölogical Laboratory.

Toward the Contributions from the Laboratories, the Corporation contributed \$200.

William Brewster died in Cambridge, July 11, 1919. Keenly interested from early boyhood in the ways of birds, Mr. Brewster spent much of his life afield, acquired a broad and accurate knowledge of the life-habits of North American birds, and got together a large and valuable series of the same, their nests and eggs, all, scientifically, in exceptional condition. Mr. Brewster was in charge of the ornithological collections of the Museum from 1885 until his death; he also had charge of the collection of mammals from 1885 until 1900. In accepting Mr. Agassiz's invitation to assume the care of these collections, Mr. Brewster wrote that he could not "at any time agree to undertake work that will involve any considerable expenditure of my time which is very fully taken up with other duties"; thus, while never an active Curator, the staff of the Museum was strengthened by Mr. Brewster's ornithological repute, and his private collection was most generously at all times, practically, as by bequest it becomes actually, a part of the Museum's resources.

Mr. Brewster's influence upon young ornithologists was very great and his relations with them as with his contemporaries was at all times genuinely sympathetic and helpful; the sincere regret and sense of individual loss felt by his Museum associates will be shared by many interested in bird life who were denied the privilege of his personal friendship. Mr. Brewster's contributions to ornithological literature are many and important; that they are not more numerous will always be regretted, especially when his "Bird Migration," "Birds of the Cambridge Region," "Voices of a New England Marsh," or "Squirrels in Cambridge" are recalled to mind. His editing of H. D. Minot's "Land and Game Birds of New England" was wholly admirable, a model for his own posthumous writings.

The deaths of Professor William G. Farlow and Mr. Oric Bates are recorded with regret. For several years the reports of Dr. Farlow's teaching in the biological courses of the University were included among the activities of the Museum, and for nearly forty years he not only contributed valuable material to the Museum collec-

tions, but his wide and exact knowledge and retentive memory were of distinct service in bibliographic inquiries. In recent years Mr. Oric Bates showed his interest in the Museum by personal contributions and by his influence upon others whom he met during his fieldwork in Africa.

SAMUEL HENSHAW, *Director*.

THE ZOÖLOGICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— In Harvard the courses in Zoölogy, in accordance with the military requirements, were divided into three terms; but in Radcliffe they were given as usual on the semester plan. During the first term Professor Mark assisted in the Government course in Hygiene and Sanitation by conducting quizzes of two sections of the class.

Table I is a record of the enrolment in Harvard. To the number indicating each course is added an exponent (1, 2, or 3) to indicate the term (first, second, or third) during which the course was given. The numbers in italics indicate students in military service, those in brackets, students who attended the lectures, but were not enrolled and took no examinations.

TABLE I. (HARVARD)

Courses 1918-19	Grad. A. & S.	Senior	Junior	Soph.	Fresh.	uC.	ocC.	Special	Business	Public Health	No acct. Standing	Total	Civilian	Military
Zoölogy 1 ¹		3+2	3+1	5+7	13+2	0+2	1				1	40	25+15	
" 1 ²	2	7	14	35	50	15	1	1				125		
" 3 ²	2(1)	2	1		5	2	1	1				17(1)		
" 4 ¹				<i>1</i>		<i>2</i>						3	3	
" 4 ²	1(2)	2	2(1)	2	3	1				1		12(3)		
" 5a ²	1(1)	2	1	1		1		1				7(1)		
" 5b ²	(1)		(1)			1						2(2)		
" 7a ²			2				1		(3)			3(3)		
" 7c ²			1				1		1			3	2+1	
" 14b ¹			1	<i>1</i>								2	1+1	
" 20a ²⁺³	1	1	1									3		
" 20b ¹⁺²	1											1		
" 20c ²⁺³	3											3		
" 20g ²⁺³	1											1		
Sums . .	12(5)	17+2	26+1(2)	47+9	71+2	20+4	5	3	1(3)	1	1	222(10)		

The enrolments in Radcliffe courses are shown in Table II.

TABLE II. (RADCLIFFE)

Courses 1918-19	Gr.	Sen.	Jun.	Soph.	Fresh.	Uncl.	Total
Zoölogy 1.....		14	7	21	13	3	58
" 3.....		..	2	8	1	2	13
" 4.....		2	..	1	..	..	3
" 5b.....	(1)	2	..	1	..	..	3 (1)
" 14b.....		3	..	..	..	..	3
" 20c.....	1	..	..	..	..	..	1
Sums.....	1	21	9	31	14	5	81

In April, Assistant Professor Rand was promoted to be Associate Professor of Zoölogy from September 1, 1919.

All courses given were conducted by the same instructors as in the year 1917-18, except that Zoölogy 1 in the third term was given by Professor Castle. The lectures in the course during the first term, by Professor Parker, were the same in number as usually given in the first half-year, the additional time required being gained by giving three lectures a week instead of two. The Assistant in charge of the laboratory work during the first term was Mr. R. J. Dobson. During the third term there were two lectures a week supplemented by required reading of textbooks. Mr. J. M. D. Olmsted was chief-assistant, the sub-assistants being Messrs. L. C. Dunn, J. F. Fulton, Jr., and C. S. Simkins.

Mr. A. W. L. Bray was Assistant in Zoölogy 3², Zoölogy 4¹, Zoölogy 5a², and Zoölogy 5b³, Harvard, also in Zoölogy 1, 4 and 5b, Radcliffe. The Assistant in Zoölogy 3², Radcliffe, was Mr. V. Obreshkove, in Zoölogy 4³, Harvard, Mr. J. M. D. Olmsted.

The University Extension Course in Elementary Zoölogy, by Professor Parker, dealt with animal reactions and was attended by fourteen persons, about half of whom were teachers. The Assistant was Mr. A. W. L. Bray.

Research work, carried on chiefly in the second and third terms, were counted as equivalent to courses as follows:— in Harvard, Zoölogy 20a and 20b, under Professor Mark, three and one-third courses; Zoölogy 20c, under Professor Parker, four and two-thirds courses, Zoölogy 20g, under Professor Rand, one and one-third courses; in Radcliffe, Zoölogy 20c, under Professor Parker, two courses.

Marion Irwin, graduate student in Radcliffe College, received in June the degree of Ph.D., her thesis, partly in the field of Botany, partly in Zoölogy, being entitled "Effect of Electrolytes and Non-electrolytes on Organisms in Relation to Sensory Stimulation and Respiration."

The exigencies of war had made it necessary late in the year 1917 to transfer the Bermuda Biological Station from Agar's to a nearby island — Dyer Island.

At the opening of the College late in September, 1918, it was decided by the Corporation that, in view of the uncertain duration of the war, it would be desirable to close the Station for the time being. Accordingly, when the Resident Naturalist, Dr. W. J. Crozier, received an offer of an Assistant Professorship in the College of Medicine of the University of Illinois, the Station was closed and so remained from early in November, 1918, till June, 1919, when it was reopened on Agar's Island. The Station was open from June 28 to September 10, and six persons, including the Director, were at work there during the most of the time, four of them from Harvard.

At the Marine Biological Laboratory, Woods Hole, the Harvard Table was shared by two graduate students pursuing researches. The Radcliffe Table was shared by two students of the classes of 1919 and 1921.

Aid from the Humboldt Fund to the amount of \$417.50 was furnished to research students at the Bermuda Station and the Woods Hole Laboratory, the payments falling, however, within two fiscal years.

The meetings of the Zoölogical Club were discontinued during the first term; but during the second and third terms there were thirteen meetings at which five original papers and eleven reviews were presented. The average attendance was over fourteen.

There have been published during the year 34 papers by officers and students of the Department, including those published as Contributions from the Zoölogical Laboratory and as Contributions from the Bermuda Biological Station, but not including those in Applied Zoölogy. The titles are printed in the current Report of the Director of the Museum of Comparative Zoölogy.

EDWARD L. MARK, *Director.*

THE MINERALOGICAL MUSEUM AND LABORATORIES OF MINERALOGY AND PETROGRAPHY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The War and its after effects gave us a very quiet year. Some gifts of minerals and apparatus were received; students in this Department proper were few, although the staff assisted in the instruction of large numbers in military topography and surveying. The laboratories which had been removed to Pierce Hall before the War, and temporarily vacated to accommodate the Radio School, were, by the return of the Engineering School to Pierce Hall, forced to again occupy the original quarters in the Museum and in this unforeseen but unavoidable circuit much energy and time was necessarily expended; during the pilgrimage, however, certain improvements in equipment were picked up "en route" which now add materially to the efficiency of the laboratories.

During the past two years the Museum has been practically without funds for the purchase of minerals, and important offers have been perforce rejected.

JOHN E. WOLFF, *Curator*.

THE PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— Although the work of the Museum during the year has been materially affected by the war, much has been accomplished in the acquirement of collections, in research and in the preparation of papers for publication.

The loss of one of the most efficient members of the staff while in the service of the country, is deeply felt by all friends of the Museum, and by all students of that branch of anthropology of which he was a leading exponent. Mr. Oric Bates, Curator of African Archaeology and Ethnology, died at Camp Zachary Taylor, Louisville, Kentucky, on October 8. Soon after our country entered the war he was appointed instructor in navigation in a school for deck officers, but as the war progressed, wishing to take a more active part in the struggle, he entered the artillery officers' training camp, where he contracted pneumonia and died after a brief illness.

Mr. Bates was appointed Curator of the African department of the Museum in 1914. Since then conditions abroad made it impossible for him to carry out fully the work planned; but much has been done in explorations, in the bringing together of collections, and in the preparation of papers dealing with African subjects. In 1917, he founded the "Harvard African Studies," two volumes of which have been published by the Museum. Mr. Bates missed no opportunity to advance the interests of his department. He freely gave his time, and financed most of the work. By his death the Museum has lost an able and enthusiastic officer, and his colleagues a sincere and helpful friend. By a vote of the Museum Faculty, the room reserved for the African collection will be known as Bates Hall, as a memorial to him.

A considerable portion of the staff of the Museum has been absent for most of the year, in war service.

Professor R. B. Dixon, Curator of Ethnology, continued his investigations for the State Department, and in November was appointed official ethnographer to the United States Peace Commission. He returned from Paris in May.

Assistant Professor A. M. Tozzer, Curator of Middle American Archaeology and Ethnology, finished his work as President of the Aviation Examining Board for the district of San Francisco soon after the signing of the armistice, and resumed his duties at the Museum in February.

Dr. Charles Peabody, Curator of European Archaeology, was in France for the greater part of the year in connection with the work of the Franco-American Committee for the Protection of the Children of the Frontier.

Dr. E. A. Hooton, Curator of Somatology, has been engaged in the preparation of a report on the skeletal remains from the Indian Cemetery at Madisonville, Ohio, and has installed in the osteological hall a general exhibit showing variations of long bones. Upon the death of Mr. Bates, Dr. Hooton took charge of the issuing of the second volume of the Harvard African Studies, then in press, and with the aid of Mr. George Schwab, Hemenway Fellow, prepared a linguistic and tribal map of Africa for the use of the United States Peace Commission.

Mr. Schwab, who has been a missionary among the tribes of southern Cameroon, contributed many specimens illustrating the customs of the people among whom he has been stationed. Arrangements have been made whereby, upon his return to Africa, his researches among the Cameroon tribes will be continued, and as complete a collection as possible will be made for the Museum.

Mr. S. J. Guernsey, Assistant Curator of Archaeology and Ethnology, in addition to his usual work, gave such time as was available to the preparation of his report on the fieldwork of the Museum in northeastern Arizona, which is soon to be published as the second part of Volume VIII of the Museum "Papers."

Aside from her duties as Assistant Librarian, Miss Ashenden has had general supervision of the sale of the Museum publications, and has also prepared a selected bibliography of Africana, which appears in the second volume of the Harvard African Studies.

Miss Gleason has given a considerable portion of her time to the care of the Museum's collection of photographs, and to the preparation of plans and illustrations for Volume VIII of the Museum "Papers."

In addition to the routine work in cataloguing and caring for collections received during the year, much has been done in furnishing labels for specimens, and a few new collections have been installed.

A model of the Serpent Mound of Adams County, Ohio, has been prepared from the recent survey by the Director. This interesting earthwork, which is the largest representation known of the horned serpent deity of the Indians, became the property of this University in 1887 through the efforts of Professor Putnam, and in 1900 was transferred to the State of Ohio for preservation and perpetual care.

A model has also been made of the Turner group of mounds of southern Ohio, explored several years ago by the Museum.

Another house-group model has been added to the series illustrating the home life of the American Indian. This shows two examples of the large maloka or communal house of the Arawakan and Betoyan tribes of the Uaupes River region, northwestern Brazil, and has been placed in the South American gallery with the ethnological collection from these Indians brought together by Dr. A. Hamilton Rice.

Thirty friends of the Museum contributed specimens or collections during the year. The most notable of these gifts is the Bates collection from the shell-heaps of the Maine coast. For many years the late Professor Arlo Bates spent a large portion of his summer vacations locating and exploring these kitchen-middens, often in company with his son, Oric. The collection is the gift of father and son.

Another valuable collection was received from Mr. Samuel K. Lothrop. This comprises about one hundred and fifty pottery vessels and stone objects from the prehistoric graves of Costa Rica.

In addition to ethnological specimens from Labrador, Mr. W. B. Cabot presented a notable collection of a hundred and twenty-five photographs taken by him among the remote Nascapee Indians. These photographs record in an interesting way many of the Algonquian customs that are now obsolete among most of the tribes of this stock.

The large totem pole transported from Gash village, southern Alaska, by the Harriman Expedition, has been installed in the hall devoted to North American ethnology, on the first floor of the new section. This interesting monument from the Sanyakoan tribe of the Tlingit Indians, the gift of the late Edward H. Harriman, has been in storage since 1899, owing to lack of exhibition space.

The accessions during the year to the Museum Library which is under the charge of Professor Dixon, numbered 242 volumes, 147 pamphlets and 9 maps. The most valuable of these is the Central American Manuscript, "*Arte de la Lengua Szinca*," by Manuel

Maldonado de Matos, a gift from Mr. Charles P. Bowditch. Mr. Bowditch has also added eleven volumes to the collection of photographic copies of early manuscripts and books relating to Mexico and Central America, which now numbers 249 volumes.

The largest individual gift to the Library was from Mrs. Robert G. Fuller, who contributed the books relating to anthropology which belonged to her late husband.

The Museum receives most of the current anthropological publications from societies and museums in various parts of the world in exchange for its own publications, and it is especially desirable that a publication fund be established which will enable it to place more fully before students the results of its researches.

Several friends of the Museum have contributed liberally during the year for explorations and the purchase of specimens, and also to the fund for opening the Museum on Sunday afternoons. As a list of these is published in the report of the Treasurer of the University, their names do not appear here.

A part of the income from the Mary Hemenway Fund was used for the salary of one of the Museum staff, the unexpended portion being reserved for publishing the report of fieldwork in Arizona, previously mentioned.

The income from the H. F. Wolcott Fund was used for the purchase of several collections of unusual value. The first of these, from the Caraya and Cayapo tribes of the Rio Araguaya, Brazil, is of special interest, as it was brought together many years ago. Through the coöperation of the Field Museum of Chicago, two choice collections were secured, one from the Admiralty Islands, the other from New Britain; and an excellent group of prehistoric pottery vessels, figurines and jade objects was obtained from Oaxaca, Mexico.

The income from the Henry C. Warren Fund was reserved for future exploration. As usual the receipts from the remaining Funds were used for the general purposes of the Museum and Library.

In January the Museum lost by death two members of the Visiting Committee — Theodore Roosevelt died on the 6th and Dr. Clarence J. Blake on the 29th. Colonel Roosevelt became a member of the Committee in 1916, and was much interested in the African department. Dr. Blake was a member of the Committee for twenty-two years, and took an active part in the development of the Museum during that period.

CHARLES C. WILLOUGHBY, *Director.*

THE FOGG ART MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present the following report on the Fogg Art Museum for the year 1918-19.

BEQUESTS

The Museum and the community suffered a great loss in the death of Hervey Edward Wetzel, Class of 1911, one of the young graduates trained in the Division of Fine Arts, who in only a few years had developed into one of the ablest collectors of works of Oriental art in the country, and who was associated with the Museum of Fine Arts in Boston. Mr. Wetzel lost his life in the service of the American Red Cross in France. He left to the Fogg Art Museum a bequest of \$100,000, which was to be used for the purchase of important works of art of rare beauty. Also, in accordance with the expressed wish of Mr. Wetzel, his relative Mrs. Valentine gave to the Museum of Fine Arts and the Fogg Art Museum in approximately equal amounts, a large number of the works of art that he had collected.

Those received by the Fogg Museum include Chinese pottery and porcelain; Chinese and Japanese bronzes; Japanese paintings; Japanese carved wood; Thibetan painting; Persian manuscripts, miniatures, and masterpieces of calligraphy; jade; textiles; furniture, etc., altogether making an important addition to the Museum collection. Part of the fund was used for the purchase of the "Crucifixion" by Simone Martini.

From the bequest to Harvard University of Evert J. Wendell, Class of 1882, who also died in service in France, came forty-five drawings by Kenyon Cox, Oliver Herford, E. Seton Thompson, and others; and thirty-six prints by Bartolozzi, Pontius, Isabey, Dickinson, Dunkarton, Earlom, C. Turner, J. R. Smith, and others.

GIFTS

Samuel Sachs: Six water colors by John Ruskin: Falls of Schaffhausen; Falls of Schaffhausen (unfinished); Dawn at Neufchâtel; Lauterbrunnen; Sketch of Siena; Northwest Porch of St. Mark's; all formerly in the collection of Professor Charles Eliot Norton.

Mrs. Schuyler van Rensselaer: Book of prints by Hiroshige.

Dr. Denman W. Ross, Class of 1875: Two pencil drawings by J. B. Potter; two textiles.

The Misses Norton: Portrait of John Ruskin, water color by Charles H. Moore.

PRINTS

Alfred M. Brooks, Class of 1894: Farne Island, engraving by Willmore after Turner.

Heirs of Mrs. Mary Hemenway: Collection of 209 woodcuts and engravings.

MISCELLANEOUS

Miss Sara Norton: Collection of letters to Professor C. E. Norton.

Paul J. Sachs, Class of 1900: Four hundred reproductions of Fogg Museum paintings.

Charles L. Freer: Reproductions of paintings by Li Lung Mien.

Professor William E. Byerly, Class of 1871: One cast.

LOANS

During the past year the Fogg Museum has received some unusually important loans. These may be divided into three classes: I. Works of art which have come to the Museum as indefinite loans; II. A series of loans of important paintings, prints, and other objects, one at a time, for a period of about four or five days, and in some cases for a longer period; III. Special exhibitions.

I. Indefinite loans:

The Museum of Fine Arts and Mrs. Albertine W. F. Valentine each left in the cases in the Wetzel room referred to in the last report of the Fogg Art Museum, as indefinite loans, some of the objects in the Wetzel bequest which came to them respectively. In return, some of the objects belonging to the Fogg Museum are left in the Museum of Fine Arts for the present.

Horace Morison, Class of 1900: Early Venetian painting, Madonna and Child; School of Verrocchio, Madonna and Child.

Paul J. Sachs: Cassone.

Edward W. Forbes, Class of 1895: Fourteen chairs; two Byzantine paintings.

II. Loans for a few days, and miscellaneous loans for longer periods:

Samuel Sachs: Tintoretto, Diana; Antonio Moro, Señor del Rio.

Arthur Sachs, Class of 1901: Ambrosius Benson, Madonna and Child; Joachim Patinir, St. Jerome in the desert; Christof Amberger, Portrait of a man; Marcellus Koffermans, Crucifixion.

John T. Spaulding: Seventy-five drawings by Hokusai.

Dr. Ananda Coomaraswamy: Eleven Rajput paintings; three Mughal paintings; one Persian painting.

Dr. Denman W. Ross, Class of 1875: Japanese painted screen, 17th century; four Indian drawings; one Persian drawing.

The Misses Norton: Eighteen water colors by John Ruskin.

Miss Sara Norton: Three water colors by John Ruskin; wood-carving of two figures from Pollaiuolo's Martyrdom of St. Sebastian.

Miss Margaret Norton: Three water colors by John Ruskin.

Miss Katherine Bullard: Two water colors by John Ruskin (lent twice).

The Ehrich Galleries: Titian, Portrait; Goya, Portrait; Venetian painting, Head of a man.

Messrs. Duveen Brothers: Fiorenzo di Lorenzo, Madonna and Child.

Paul J. Sachs: Francesco di Giorgio, Madonna and Child; Giovanni di Paolo, St. John the Baptist; Pier Francesco Fiorentino, Madonna and Child; Manship, Centaur; Byzantine head; Agostino, Madonna and St. Joseph adoring the Child; eight Chinese bronzes; two Persian tiles; three pieces of jade; fourteen drawings by Rubens, Filippino Lippi, Perugino, Signorelli, Pollaiuolo, Rembrandt, Fragonard, Tiepolo, and others; Corinthian vase; 12th dynasty Egyptian statue; 15th century French painting; 5th century Greek head; painting by Mirak; Thibetan painting; Egyptian mummy mask; Courbet, Portrait of a boy; Ligier Richier, Piece of sculpture; thirty-two prints by Baldung, Dürer, Campagnola, Mantegna, and others.

Mrs. Albertine W. F. Valentine: Head of Buddha, Siamese bronze, late 15th century.

Anonymous: Fifty-seven Minoan seals; fourteen bronzes.

Mrs. John T. Linzee: Six books on Oriental art.

Mrs. C. C. Felton: Flower piece by Dutch artist.

Museum of Fine Arts: Twelve etchings by Meryon; one drawing by Meryon; one etching by Cameron.

III. Special exhibitions:

The first exhibition was of significant drawings by the great masters, and lasted from March 11 to April 1, 1919. Drawings were lent as follows:

Paul J. Sachs: Seventy-four original Old Master drawings by Signorelli, Pollaiuolo, Rubens, Fragonard, Altdorfer, van Dyck, and others.

Horatio G. Curtis, Class of 1865: C. Visscher, Portrait of a woman; Gaillard, Don Prosper Guéranger.

Charles A. Walker: Bosboom, Interior of a cathedral.

Arthur Pope, Class of 1901: W. van de Velde, Vessel.

Even more important was a notable exhibition representing French art from the ninth century to the present time. This was the most successful exhibition that has ever been held in the Museum, and it attracted wide attention. It was visited by over 6300 people during the two weeks of its duration, April 9 to 23, 1919. The lenders were as follows:

President and Mrs. A. Lawrence Lowell: Monet.

Mrs. J. Montgomery Sears: Manet (3 paintings); Degas (3 paintings); Cézanne; Drawing by Ingres.

John Pierpont Morgan, Class of 1889: Corneille de Lyon (2 paintings); eight manuscripts, 9th to 16th century.

Grenville L. Winthrop, Class of 1886: David; Corot; Diaz.

- Herbert Straus, Class of 1903: Drawing by Greuze; Drawing by Meryon.
 Mrs. Alfred Atmore Pope: Puvis de Chavannes.
 Harris Whittimore: Renoir; Degas.
 Major Robert S. Clark: Courbet.
 Adolph Lewisohn: Manet; Degas; Cézanne.
 Mrs. John Simpson: Chardin, and engraving of same.
 Malden Public Library: André.
 A Strölin: Three lithographs by Daumier.
 Mr. and Mrs. George Blumenthal: Enameled casket; two Limoges plaques.
 Michael Dreicer: Simon Marmion; Corneille de Lyon (2 paintings); Gothic statue, 14th century.
 Museum of Fine Arts: Nineteen engravings, etchings, and lithographs by French artists.
 Duveen Brothers: Two French Marquise settees; two French marquetry commodes; six-fold Savonnerie screen; Clodion, Pair of terra cotta groups; 18th century tapestry panel (Beauvais); Falconet, Pair of marble statuettes; Falconet, Marble clock; four French chairs; Houdon, Bronze statue of Diana; Nattier; Flemish 16th century Gothic tapestry after David; Table.
 Gimpel and Wildenstein: Houdon, Bust; Marin, Statuette; Drawings by: Watteau (2), Boucher (2), St. Aubin; Paintings by: Fragonard (2), Vigée Lebrun, Watteau.
 Durand-Ruel: Courbet; André (2); Delacroix; Degas (4); Renoir (3); Monet.
 Kleinberger Galleries: School of Lorraine, St. George and the dragon.
 Paul J. Sachs: Gothic statue, 14th century; Delacroix; André; Courbet; Renoir, French wood, 13th century; French Gothic head.

LECTURES AND CONFERENCES

- February and March, 1919. A series of conferences by Mr. Jay Hambidge on Dynamic Symmetry, illustrated by Mr. Hambidge's drawings.
 April 9. Lecture at opening of Retrospective Loan Exhibition of French Art, by Captain André Morize.
 April 16. Modern French Painting. Conference by Professor Arthur Pope, Class of 1901.
 April 18. Goya as an Etcher. William M. Ivins, Jr., Class of 1901, Curator of Prints, Metropolitan Museum, New York.
 May 2. Celebration in commemoration of the four hundredth anniversary of the death of Leonardo da Vinci with the following addresses: Significance of the celebration, by Professor Paul J. Sachs; Leonardo the Scientist, by Dr. George Sarton; Leonardo the Painter, by Professor George Harold Edgell, Class of 1909. Renaissance music was rendered by the College choir under the direction of Professor Archibald T. Davison, Class of 1906.
 May 27. Loss and recovery of Greek sculpture, by Ernest A. Gardner.

PHOTOGRAPHS AND SLIDES

Five hundred and ninety-eight photographs were received as gifts from the following: Evert J. Wendell bequest, Detroit Museum, Harvard College Library, Miss Sara Norton, Professor George H. Chase, Professor William E. Byerly, and Edward W. Forbes. Sixteen photographs were purchased. Ten photographs of prints were the gift of the Museum of Fine Arts to be used with the prints.

One hundred and one slides were received as gifts from Dr. Denman W. Ross, and Professor Paul J. Sachs. Four hundred and sixty-nine slides were purchased.

Three hundred and nine photographs and two hundred and eleven slides were catalogued.

Photographs and slides were lent to instructors and occasionally to teachers.

Thirty-one dollars was received from the sale of photographs and post cards.

The public school lending set of Greek slides was used by sixteen high schools, the Roman set by thirteen, and the English set by eight.

BOOKS

One hundred and fifteen books were added to the library; of these one hundred and five were the gift of the following persons: William C. Lane, Class of 1881; Dr. Denman W. Ross, Class of 1875; Miss Sara Norton; Bequest of Hervey E. Wetzel, Class of 1911; Miss Clementine Mähn; Miss Louise Fitz; Herbert F. Schuchmann; Orlando Grosso; Boston Public Library; Professor Paul J. Sachs; Edward W. Forbes.

Three books were transferred from the Harvard College Library, and seven were purchased from the Searle fund.

The assistant director was absent in the service of the American Red Cross in Europe from August, 1918, to February, 1919, and the director was absent from October, 1918, to May, 1919, for the same reason. During the period when both the directors were absent, Professor Arthur Pope served as acting director.

NEEDS

The need of a new building each year becomes more urgent. Frequently people come in to see one or another of our valuable collections, and find that they are not on exhibition, but in storage

on account of lack of space. The holding of special exhibitions is a difficult and expensive undertaking and not devoid of risk. For the only satisfactory way to get space enough for such an exhibition is to remove the large and frail Italian altarpieces from their places on the wall in the main gallery and stack them on the floor in one end of the room. Further, the classes in drawing occupy with their drawing boards a large amount of exhibition space, and yet have not enough room to work. The staff is inadequately paid, and the directors have to raise money each year not only for all progressive activities of the museum, but even to defray the necessary running expenses such as the insurance, telephone, etc. Therefore an increased fund for maintenance is sorely needed.

EDWARD W. FORBES, *Director.*

HARVARD UNIVERSITY PRESS

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit my report for the academic year 1918-19.

During this year the Press suffered a very great loss in the death of Colonel Robert Bacon. His vision of the possible scope of the Press, his cordial assistance in its inception, and his confidence in its future made possible the establishment of the institution and did much to stimulate its growth. It seems appropriate to trace very briefly, at this time, the progress that has been made in the six years since the Press was formally organized. In 1913 the University published some eighty books and made sales of its publications aggregating approximately \$14,000.00 a year. Today the Press has on its list more than three hundred and fifty titles, the annual receipts from sales amount to approximately \$70,000.00, and in addition the printing department does a yearly business of more than \$100,000.00. The service which the Press has rendered to the University may be indicated more clearly, however, by an analysis of the books which it has issued. They fall naturally into three classes. In the first place there are works of pure scholarship which enhance the reputation of the University as a place for research, but which no commercial publisher would undertake to issue on account of the long delay involved in turning over the investment. "Aristotle: Meteorology," by Professor Fobes, and "The Enforcement of Decrees in Equity," by Professor Huston, are examples of such books. Again, the Press has published certain books like Mr. Cary's "Manual for Northern Woodsmen," and Professor Brown's "How the French Boy Learns to Write," which, although of a technical nature, may be distributed among a fairly large class of special buyers. Commercial publishers, dependent mainly on book-store distribution, would find such books unprofitable to handle, but the Press has been able to push them through several editions. Beyond these two classes there is a third sort of publication represented by President Lowell's "Greater European Governments," and Professor Castle's "Genetics and Eugenics," which would be welcomed by any commercial publisher but which, under the imprint of the Press, associate the name of the

University with the best efforts of her teachers to maintain the standards of instruction in American schools and colleges.

The Press has linked the name of Harvard University with the productions of many of its foremost scholars by issuing over its imprint works by President Lowell and some fifty professors in the various Faculties of the University.

The following list gives the titles of the books that have been published during the current year:

- The Early English Customs System. By Norman Scott Brien Gras, Ph.D., Assistant Professor of History in Clark University.
- Pagan Ideas of Immortality during the Early Christian Centuries. By Clifford Herschel Moore, Ph.D., Litt.D., Professor of Latin in Harvard University.
- Greater European Governments. By A. Lawrence Lowell, A.B., LL.B., LL.D., Ph.D., President of Harvard University.
- Strife of System and Productive Duality. By Wilmon Henry Sheldon, Ph.D., Professor of Philosophy in Dartmouth College.
- Macarii Anecdota: Seven Unpublished Homilies of Macarius. By G. L. Marriott, A.M., B.D., Lecturer in the University of Birmingham.
- Manual of Military German. By F. W. C. Lieder, Ph.D., and R. W. Pettengill, Ph.D., Instructors in German in Harvard University.
- The Political Works of James I. By Charles Howard McIlwain, Ph.D., Professor of History and Government in Harvard University.
- Slavic Europe. A Selected Bibliography in the Western European Languages. By Robert J. Kerner, Ph.D., Associate Professor of History in the University of Missouri.
- Attic Red-Figured Vases in American Museums. By J. D. Beasley, student of Christ Church, Oxford.
- The Law as a Vocation. By Frederick J. Allen, Assistant Director of the Harvard Bureau of Vocational Guidance.
- Style and Literary Method of Luke, Part I. By Henry J. Cadbury, Ph.D., Associate Professor of Biblical Literature in Haverford College.
- A Handbook of Attic Red-Figured Vases. By Joseph Clark Hoppin, Ph.D., F.R.G.S., Professor of Classical Archaeology in Bryn Mawr College.
- Aristotelis Meteorologicorum Libri Quattuor. By Francis Howard Fobes, Ph.D., Assistant Professor of Greek in Union University.

During almost the entire period of the existence of the Press, and particularly during the last two years, its activities have been necessarily curtailed by the war. The sale of books to European countries has been largely restricted and the operations of the Press in the United States have been hampered. In addition the fact that the institution has had no endowment, but has been obliged to depend on loans and special subsidies in issuing its

publications, has made it difficult for the Press to carry on its operations on the scale that should be expected of a department of Harvard University. In spite of the handicaps already mentioned a foundation has been laid, a fair number of books have been published, and an organization for their manufacture and distribution has been built up. This includes the development of a group of highly competent workmen trained to handle learned work and so organized that difficult and complicated jobs can be done correctly and in a minimum time. There has also been developed a sales organization able to distribute several thousand copies of highly technical books that other publishers have been unwilling to handle, and the basis has been laid for a mail order business which has yielded as many as three hundred eighty-five direct-by-mail sales in a single week. The great need of the Press at the present time is sufficient capital to enable it to extend the range of its work. A number of notable books, which would enhance the reputation of the University, must now be declined because of insufficient funds. Most of the books which the Press issues will ultimately return all their cost and many will show a modest profit, but in the nature of the case the books which the Press undertakes are largely of a slow selling kind and a substantial amount of capital must be tied up if the Press is to function in a satisfactory fashion. The fact that on small loans it has been able to do what it has and that it has tangible assets greater than its present liabilities indicates, it is believed, that it has made reasonable progress. If the Press is to represent the University adequately in the field of scholarly publications, however, it must cover a wider scope and follow a more aggressive policy than has been possible heretofore. At the present time the need of an endowed scholarly press is perhaps greater than at any time in the world's history. The war has borne heavily on all civilized countries and scholarship is suffering with other interests of life. It would seem particularly important, therefore, to maintain the standards of scholarship in the country which has suffered least from the devastations of war. Under proper leadership and with sufficient capital the Press can assist the University materially in this service to the world.

CHARLES CHESTER LANE,
Director of the Press.

UNIVERSITY EXTENSION

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The following report covers the work of University Extension for the academic year 1918–19, including the Summer School of Arts and Sciences for 1919.

I. THE SUMMER SCHOOL OF ARTS AND SCIENCES

The conduct of the Summer School of 1919 was in the hands of Assistant Professor Arthur F. Whitem.

The usual session of the Summer School was held from July 1st to August 9th, and was attended by the largest number of students in the history of the School. A second session, intended primarily to meet the needs of men returning from military and naval service was held from August 11th to September 13th. Almost six hundred men took advantage of this opportunity to make up time lost from their studies.

The general courses of the Summer School in the first session were offered by forty-two officers of the Faculty of Arts and Sciences and two of the Faculty of Architecture, including eleven professors, five associate professors, seven assistant professors, sixteen instructors, two assistants, two lecturers, and one graduate student; together with four professors, one associate professor, and two assistant professors from other institutions, and six gentlemen not holding academic positions.

The general courses of the second session of the Summer School were offered by twenty-one officers of the Faculty of Arts and Sciences, including one professor, one associate professor, six assistant professors, ten instructors, two assistants, and one lecturer; together with three professors and two associate professors from other institutions.

The usual courses at the Hemenway Gymnasium under Dr. D. A. Sargent engaged the services of a large number of other instructors, lecturers, and assistants.

By vote of the Faculty of Arts and Sciences on April 1, 1919, it became possible for a student to offer for the degree of Master of Arts a programme consisting entirely of Summer School courses.

This vote came too late to have much effect on the Summer School of 1919, but in the future it will probably bring an increasing number of mature students.

SUMMER COURSES OF INSTRUCTION, 1919

All courses in the first session met five times a week for six weeks and in the second session five times a week for five weeks.

The degrees (A.B., S.B., A.A.) for which the courses were accepted are indicated after the name of the course. The courses are valued as half-courses, unless otherwise stated.

Harvard students are designated by their status in the academic year preceding the Summer School. The number of auditors (often an important element in the course) is indicated in addition to the number of persons actually registered for the course.

FIRST SESSION

ANTHROPOLOGY

- S1. Asst. Professor A. M. TOZZER. — General Anthropology. (A.B., A.A., S.B.) 9 S.S., 3 Se., 6 Ju., 7 So., 3 Fr., 2 uC. Total 30 (+ 1 Aud.).
- S12. Asst. Professor A. M. TOZZER. — Primitive Sociology. (A.B., A.A., S.B., and A.M.) 2 S.S., 2 Ju., 2 So., 1 Fr., 2 uC. Total 9.
- S20. Asst. Professor A. M. TOZZER. — Advanced work. 1 Gr. Total 1.

ARCHITECTURE

- S4a. Associate Professor J. S. HUMPHREYS. — Elements of Architectural Form. (M.Arch.) 7 S.S., 2 Se., 2 Ju., 1 So., 1 Fr., 3 ocC. Total 16.
- S4b. Associate Professor J. S. HUMPHREYS. — Architectural Design. (M.Arch.) 2 S.S. Total 2.
- S4c. Associate Professor J. S. HUMPHREYS. — Architectural Design (Advanced course). (M.Arch.) 4 S.S. Total 4.

ASTRONOMY

- S2a. Dr. H. T. STETSON. — Navigation and Nautical Astronomy. (A.B., A.A., S.B.) 1 S.S., 2 Ju., 4 So., 2 ocC. Total 9.

BOTANY

- S1. Professor E. C. JEFFREY. — Elementary Botany. (A.B., A.A., S.B.) 11 S.S., 4 Ju., 4 So., 3 Fr., 3 uC., 4 Sp. Total 29.
- S2. Professor E. C. JEFFREY. — Morphology. (A.B., A.A., S.B., and A.M.) 4 S.S., 1 So., 1 uC. Total 6.
- S20a. Professor E. C. JEFFREY. — Advanced Work. 1 S.S., 1 Se. Total 2.

CHEMISTRY

- S4. Asst. Professor G. W. HARRIS (Simmons College). — Elementary, Theoretical and Descriptive Chemistry. (A.B., A.A., S.B.)
27 S.S., 1 Se., 5 Ju., 4 So., 4 Fr., 1 uC. Total 41 (+ 2 Aud.).
- S2. Dr. G. A. HILL. — Organic Chemistry. (A.B., A.A., S.B.) 19 S.S.,
1 Se., 4 Ju., 1 So., 2 Fr., 1 Sp., 1 ocC., 1 uC. Total 30 (+ 3 Aud.).
- S3. Asst. Professor G. S. FORBES. — Qualitative Analysis. (A.B., A.A., S.B.)
6 S.S., 2 Ju., 5 So., 1 Fr., 1 uC. Total 15.
- S4. Professor G. P. BAXTER. — Quantitative Analysis. (A.B., A.A., S.B., and A.M.)
2 S.S., 1 Se., 4 Ju., 3 So., 1 ocC. Total 11.
- S6. Asst. Professor G. S. FORBES. — Physical Chemistry. (A.B., A.A., S.B. and A.M.)
6 S.S., 1 uC. Total 7 (+ 2 Aud.).
- S20f. Professor G. P. BAXTER. — Research in Inorganic and Physical Chemistry.
4 S.S. Total 4.
- S20h. Asst. Professor G. S. FORBES. — Research in Physical Chemistry.
2 S.S. Total 2.
- S20i. Dr. G. A. HILL. — Research in Organic Chemistry.
7 S.S., 1 Se. Total 8.
- S22. Dr. G. A. HILL. — Experimental Organic Chemistry. (A.B., A.A., S.B.)
3 S.S., 2 Se., 3 So., 3 Fr., 1 ocC. Total 12.

ECONOMICS

- S4. Dr. E. E. LINCOLN. — Principles of Economics. (A.B., A.A., S.B.)
46 S.S., 1 Se., 14 Ju., 20 So., 10 Fr., 1 Sp., 3 ocC., 9 uC.
Total 104 (+10 Aud.).
- S6a. Dr. E. E. LINCOLN. — Trade Unionism and Labor Problems. (A.B., A.A., S.B.) 18 S.S., 1 Se., 8 Ju., 6 So., 1 Fr., 1 ocC., 4 uC. Total 39.
- S7b. Professor T. N. CARVER. — Programmes of Social Reconstruction. (A.B., A.A., S.B.) 42 S.S., 3 Se., 13 Ju., 17 So., 4 Fr., 6 ocC., 7 uC.
Total 92 (+ 15 Aud.).
- S8. Professor T. N. CARVER. — Principles of Sociology. (A.B., A.A., S.B.) 27 S.S., 3 Se., 8 Ju., 5 So., 2 uC. Total 45 (+ 9 Aud.).
- S20. Professor T. N. CARVER and Dr. E. E. LINCOLN. — Advanced work.
7 S.S. Total 7.

EDUCATION

- S4. Professor H. W. HOLMES. — General Principles of Education. (A.B., A.A., S.B., and A.M.) 26 S.S., 1 Se., 4 So. Total 31 (+ 2 Aud.).
- S3. President W. T. FOSTER (Reed College). — Principles of Educational Administration. (A.B., A.A., S.B., and A.M.)
12 S.S. Total 12 (+ 2 Aud.).
- S3a. President W. T. FOSTER (Reed College). — Special Problems in Educational Administration. (A.B., A.A., S.B., and A.M.)
5 S.S. Total 5 (+ 3 Aud.).

- S3b.** Mr. C. D. KINGSLEY (State Board of Education). — Problems of Secondary Education. (A.B., A.A., S.B., and A.M.)
35 S.S., 1 Se., 1 Ju., 1 So. Total 37 (+ 6 Aud.).
- S3c.** Professor H. W. HOLMES. — Elementary Education. (A.B., A.A., S.B., and A.M.) 18 S.S., 1 ocC. Total 19 (+ 3 Aud.).
- S4.** Asst. Professor E. A. SHAW (Tufts College). — Educational Measurement. (A.B., A.A., S.B., and A.M.)
11 S.S., 1 Se., 1 Ju. Total 13 (+ 1 Aud.).
- S7.** Professor W. F. DEARBORN. — Principles of Educational Psychology and Mental Hygiene. (A.B., A.A., S.B., and A.M.)
7 S.S., 1 Se., 5 Ju., 2 So., 1 ocC., 1 uC. Total 17 (+ 2 Aud.).
- S11.** Dr. B. J. MORRIS. — Present Tendencies in Vocational Education. (A.B., A.A., S.B., and A.M.) 5 S.S. Total 5 (+ 1 Aud.).
- S14.** Mr. J. J. MAHONEY (Lowell State Normal School). — Education of the Immigrant. (A.B., A.A., S.B., and A.M.)
35 S.S. Total 35 (+ 4 Aud.).
- S16.** Dr. B. J. MORRIS. — Principles of Vocational Guidance. (A.B., A.A., S.B., and A.M.) 15 S.S. Total 15 (+ 1 Aud.).
- S17a.** Mr. C. S. THOMAS (Director of English in Junior and Senior High Schools, Cleveland, Ohio). — Teaching of English in Junior and Senior High Schools. (A.A., A.M.) 30 S.S. Total 30 (+ 12 Aud.).
- S17b.** Mr. C. S. THOMAS (Director of English in Junior and Senior High Schools, Cleveland, Ohio). — Special Problems in Teaching of English in Junior and Senior High Schools. (A.A., A.M.)
32 S.S. Total 32 (+ 4 Aud.).
- S18.** Mr. C. D. KINGSLEY (State Board of Education). — Teaching of Community Civics. (A.A., A.M.) 18 S.S. Total 18 (+ 4 Aud.).
- S19.** Mr. L. J. A. MERCIER. — Teaching of French. (A.A., A.M.)
12 S.S. Total 12 (+ 2 Aud.).
- S20.** Professor H. W. HOLMES. — Problems of Education.
10 S.S. Total 10.
- S20c.** Professor W. F. DEARBORN and Dr. W. E. FERNALD (Massachusetts School for the Feeble-minded at Waverley). — Psychology of Mentally Deficient, Retarded, and Exceptional Children. (A.B., A.A., S.B., and A.M.) 30 S.S., 1 Ju. Total 31 (+ 1 Aud.).
- S20d.** Professor W. F. DEARBORN and Dr. W. E. FERNALD (Massachusetts School for the Feeble-minded at Waverley). — Problems of Mental Deficiency.
2 S.S. Total 2.

ENGINEERING SCIENCES

- S4d.** Professor H. J. HUGHES. — Railroad and Topographic Surveying. (A.B., A.A., S.B.) 1 S.S., 1 Se., 2 Ju., 3 So., 2 Fr. Total 9.
- S5b.** Professor H. J. HUGHES. — Statics. (A.B., A.A., S.B.)
4 Ju., 1 So. Total 5.

ENGLISH

- S4. Associate Professor J. H. HANFORD (University of North Carolina). — English Composition and Methods of Teaching. (A.A.)
34 S.S., 1 Se., 1 So., 4 Fr. Total 40 (+ 3 Aud.).
- SC. Professor R. W. BROWN (Wabash College). — English Composition (Advanced course). (A.A.) 23 S.S., 1 ocC. Total 24.
- SE. Mr. T. L. HOOD. — Special Instruction in English for Foreign Students. 7 S.S., 1 So., 1 uC. Total 9.
- S3. Dr. ALWIN THALER. — Anglo-Saxon. (A.B., A.A., S.B.)
2 S.S., 2 Se., 1 So. Total 5.
- SS. Associate Professor C. T. COPELAND. — History of English Literature in the Nineteenth Century. (A.B., A.A., S.B.) 44 S.S., 2 Se., 17 Ju., 11 So., 4 Fr., 1 Sp., 1 ocC. Total 80 (+ 14 Aud.).
- S14. Mr. J. G. HART. — English Drama from 1558-1642. (A.B., A.A., S.B.) 10 S.S., 3 Se., 3 Ju., 1 Fr., 2 uC. Total 19 (+ 2 Aud.).
- S20. Professor J. L. LOWES. — Advanced work. 18 S.S. Total 18.
- S28. Professor J. L. LOWES. — History and Development of English Literature in Outline. (A.B., A.A., S.B.)
24 S.S., 2 Se., 7 Ju., 10 So., 1 Sp., 1 ocC., 3 uC. Total 48 (+ 8 Aud.).

PUBLIC SPEAKING AND ORAL ENGLISH¹

- S6. Mr. C. W. CHENOWETH (formerly of Harvard University). — Fundamentals of Speaking and Oral Reading. 16 S.S. Total 16.
- S10a. Mr. C. W. CHENOWETH (formerly of Harvard University). — Public Speaking. 5 S.S. Total 5.
- S17. Mr. C. W. CHENOWETH (formerly of Harvard University) and Mr. C. S. THOMAS (Director of English in Junior and Senior High Schools, Cleveland, Ohio). — Oral English. 11 S.S. Total 11.

FINE ARTS

- S1a. Asst. Professor ARTHUR POPE. — Principles of Drawing and Painting and Theory of Design. (A.B., A.A., S.B.)
7 S.S., 1 Ju., 2 So. Total 10.
- S1c. Dr. L. D. CASKEY (Museum of Fine Arts, Boston). — History of Ancient Art. (A.B., A.A., S.B., and A.M.)
4 S.S., 1 Se., 5 Ju., 12 So., 7 Fr. Total 29.
- S2c. Asst. Professor ARTHUR POPE. — Theory and Practice of Painting. (A.B., A.A., S.B., and A.M.) 7 S.S. Total 7.
- S2d. Asst. Professor ARTHUR POPE. — Theory and Practice of Painting (Advanced course). (A.B., A.A., S.B., and A.M.)
2 S.S., 1 Fr. Total 3.
- S5c. Mr. G. P. WINSHIP. — History of the Printed Book. (A.B., A.A., S.B., and A.M.) 1 S.S., 1 Se., 2 Ju., 1 uC. Total 5.
- S20. Asst. Professor ARTHUR POPE. — Advanced work. 3 S.S. Total 3.

¹ Any two five-hour courses in Public Speaking may be counted as a half-course for A.B., S.B., A.A., provided no course in Public Speaking in Harvard College has been counted.

FRENCH

- S4. Mr. G. B. WESTON. — Elementary French. (A.A.)
27 S.S., 1 Gr., 3 So., 1 Fr., 4 uC. Total 36 (+ 2 Aud.).
- S1. Mr. E. L. RAICHE. — Second-year College French. (A.B., A.A., S.B.)
18 S.S., 3 Ju., 2 So., 4 Fr., 5 uC. Total 32 (+ 2 Aud.).
- S2. Professor R. E. L. KITTREDGE (University of Toronto). — Third-year College French. (A.B., A.A., S.B.)
9 S.S., 5 Ju., 5 So., 4 Fr., 1 ocC., 1 uC. Total 25 (+ 1 Aud.).
- S3. Mr. E. L. RAICHE. — French Composition and Conversation (Elementary course). (A.A.)
24 S.S., 1 Se., 1 Fr. Total 26 (+ 3 Aud.).
- S4. Mr. L. J. A. MERCIER. — French Composition and Conversation (Advanced course). (A.B., A.A., S.B.)
31 S.S., 1 Gr., 2 Se., 3 Ju., 1 So., 1 Fr., 2 ocC. Total 41 (+ 4 Aud.).
- S7. Asst. Professor LOUIS ALLARD. — French Romanticism in the Nineteenth Century. (A.B., A.A., S.B., and A.M.)
10 S.S., 1 Se., 8 Ju., 4 So., 3 Fr., 5 ocC., 1 uC. Total 32 (+ 7 Aud.).
- S20. Asst. Professor LOUIS ALLARD. — Advanced work.
4 S.S., 1 Gr. Total 5.

GEOLOGY

- S5. Associate Professor J. B. WOODWORTH. — Field Work in Montana. (A.B., A.A., S.B., and A.M.)
3 S.S., 2 Se., 9 Ju., 5 So., 2 Fr., 2 ocC., 1 uC. Total 24.
- S20a. Professor W. W. ATWOOD. — Physiographic Field Studies. (A.B., A.A., S.B., and A.M.)
3 S.S., 1 ocC. Total 4.

GERMAN

- S4. Dr. A. H. HERRICK. — Elementary German. (A.A.)
12 S.S., 2 Ju., 1 So., 6 Fr., 2 Sp., 5 uC. Total 28.
- S1. Dr. F. W. C. LIEDER. — Second-year College German. (A.B., A.A., S.B.)
3 S.S., 1 uC. Total 4 (+ 1 Aud.).
- S2. Dr. F. W. C. LIEDER. — Third-year College German. (A.B., A.A., S.B.)
2 S.S., 1 Ju., 1 Fr., 1 uC. Total 5 (+ 1 Aud.).

GOVERNMENT

- S1. Asst. Professor A. N. HOLCOMBE. — Modern Government. (A.B., A.A., S.B.)
15 S.S., 10 Ju., 7 So., 2 Fr., 1 ocC., 10 uC. Total 45 (+ 2 Aud.).
- S2. Asst. Professor A. N. HOLCOMBE. — Introduction to Political Science. (A.B., A.A., S.B., and A.M.)
11 S.S., 1 Gr., 1 Se., 3 Ju., 4 So., 1 Fr., 1 ocC., 6 uC. Total 28 (+ 2 Aud.).
- S4. Dr. QUINCY WRIGHT. — Elements of International Law. (A.B., A.A., S.B.)
6 S.S., 1 Se., 2 Ju., 3 So., 1 ocC. Total 13 (+ 2 Aud.).
- S20d. Asst. Professor A. N. HOLCOMBE. — Advanced work.
4 S.S., 1 Gr., 1 Se., 3 Ju. Total 9.

GREEK

- S1. Asst. Professor R. K. HACK. — Athenian Democracy and Imperialism in the Fifth Century. (A.B., A.A., S.B., and A.M.)
3 S.S., 1 Ju., 4 So., 1 Fr. Total 9.
- S20. Asst. Professor R. K. HACK. — Advanced work. 2 S.S., 1 Gr. Total 3.

HISTORY

- S1. Professor C. H. HASKINS. — European History from the Fall of the Roman Empire to the Reformation. (A.B., A.A., S.B.)
22 S.S., 2 Ju., 5 So., 3 Fr., 5 uC. Total 37 (+ 5 Aud.).
- S8. Professor C. H. HASKINS. — History of France. (A.B., A.A., S.B., and A.M.)
16 S.S., 1 Gr., 1 Se., 6 Ju., 5 So., 1 uC. Total 30 (+ 5 Aud.).
- S9. Professor C. H. McILWAIN. — English History to 1688. (A.B., A.A., S.B., and A.M.)
11 S.S., 4 Ju., 2 So. Total 17 (+ 2 Aud.).
- S12. Professor C. H. McILWAIN. — English History from 1688 to the Present Time. (A.B., A.A., S.B., and A.M.)
9 S.S., 1 Gr., 2 Se., 10 Ju., 5 So., 1 Fr., 2 uC. Total 30 (+ 3 Aud.).
- S17. Mr. FREDERICK MERK. — History of the West. (A.B., A.A., S.B.)
1 S.S., 1 Se., 4 Ju., 1 ocC. Total 7 (+ 1 Aud.).
- S20. Professor C. H. HASKINS. — Advanced Work. 3 S.S., 1 Gr. Total 4.
- S32a. Mr. FREDERICK MERK. — American History. (A.B., A.A., S.B.)
25 S.S., 11 Ju., 8 So., 5 Fr., 3 ocC., 2 uC. Total 54 (+ 3 Aud.).

HORTICULTURE

- Mr. S. F. HAMBLIN. — Plant Study and Appreciation.
11 S.S. Total 11 (+ 1 Aud.).

ITALIAN

- S1. Mr. G. B. WESTON. — Elementary Italian. (A.B., A.A., S.B.)
7 S.S., 1 Se., 3 Ju., 4 So., 3 Fr., 1 ocC., 1 uC. Total 20 (+ 1 Aud.).
- S5. Mr. G. B. WESTON. — Modern Italian Literature. (A.B., A.A., S.B., and A.M.)
6 S.S., 3 So. Total 9.

LATIN

- S1. Asst. Professor R. K. HACK. — Virgil. (A.B., A.A., S.B., and A.M.)
9 S.S., 1 Ju., 1 So. Total 11.
- S10. Professor C. H. MOORE. — Roman Life and Civilization. (A.B., A.A., S.B., and A.M.)
4 S.S., 1 Fr. Total 5.
- S20. Professor C. H. MOORE. — Advanced Work. 1 S.S., 2 Gr. Total 3.

MATHEMATICS

- SI. Associate Professor C. L. BOUTON. — Trigonometry. (A.B., A.A., S.B.)
13 S.S., 4 Ju., 4 So., 2 Fr. Total 23 (+ 4 Aud.).
- SII. Associate Professor C. L. BOUTON. — Analytic Geometry. (A.B., A.A., S.B.)
17 S.S., 1 Ju., 2 Fr. Total 20 (+ 1 Aud.).

- SIII.** Asst. Professor G. D. BIRKHOFF. — Differential and Integral Calculus.
(A.B., A.A., S.B.)
9 S.S., 1 Ju., 4 So., 5 Fr., 2 uC. Total 21 (+ 1 Aud.).
- SIV.** Asst. Professor G. D. BIRKHOFF. — Differential and Integral Calculus.
(A.B., A.A., S.B.)
4 S.S., 3 Ju., 3 So., 1 Fr., 1 Sp., 2 uC. Total 14 (+ 1 Aud.).
- S20.** Associate Professor C. L. BOUTON and Asst. Professor G. D. BIRKHOFF. — Advanced Work. 3 S.S., 1 Gr., 1 Ju. Total 5.

MUSIC

- S4.** Professor W. R. SPALDING. — Musical Appreciation. (A.B., A.A., S.B.)
18 S.S., 4 Se., 12 Ju., 5 So., 6 Fr., 1 Sp., 3 ocC., 3 uC.
Total 52 (+ 3 Aud.).
- S20.** Professor W. R. SPALDING. — Advanced Work. 3 S.S. Total 3.

PHILOSOPHY

- S1.** Dr. H. M. SHEFFER. — Introduction to Philosophy. (A.B., A.A., S.B.)
9 S.S., 4 Ju., 10 So., 6 Fr., 4 uC. Total 33 (+ 2 Aud.).
- S4.** Dr. H. M. SHEFFER. — Ethics. (A.B., A.A., S.B.)
4 S.S., 2 Se., 1 Ju., 3 So., 1 Fr., 1 Sp., 2 ocC., 1 uC. Total 15.
- S20.** Dr. H. M. SHEFFER. — Advanced Work. 3 S.S. Total 3.

PHYSICS

- S1.** Asst. Professor R. D. EVANS (Bowdoin College). — General Physics, lectures. (A.B., A.A., S.B.) 24 S.S., 4 Se., 3 Ju., 4 So., 1 Fr., 1 Sp., 2 ocC., 3 uC. Total 42 (+ 2 Aud.).
- S2.** Asst. Professor R. D. EVANS (Bowdoin College). — General Physics, laboratory. (A.B., A.A., S.B.)
13 S.S., 3 Se., 2 Ju., 4 So., 1 Fr., 1 Sp., 2 ocC., 3 uC. Total 29.

PSYCHOLOGY

- S1.** Dr. R. C. GIVLER. — General Psychology. (A.B., A.A., S.B.)
19 S.S., 2 Se., 6 Ju., 8 So., 10 Fr., 10 uC. Total 55.
- S2.** Dr. R. C. GIVLER. — Applied Psychology. (A.B., A.A., S.B.)
13 S.S., 5 Se., 14 Ju., 20 So., 15 Fr., 5 ocC., 8 uC. Total 80.
- S20.** Dr. R. C. GIVLER. — Advanced Work. 2 S.S. Total 2.

SPANISH

- S1.** Mr. G. L. LINCOLN. — Elementary Spanish. (A.B., A.A., S.B.)
30 S.S., 10 Ju., 6 So., 1 Fr., 1 Sp., 2 ocC., 2 uC. Total 52.
- S5.** Mr. G. L. LINCOLN. — Advanced Spanish. (A.B., A.A., S.B., and A.M.)
11 S.S., 1 Se., 4 Ju. Total 16 (+ 2 Aud.).
- S7.** Mr. RAMIRO ARRATIA. — Spanish Composition and Conversation. (A.B., A.A., S.B.)
13 S.S., 1 Se., 5 Ju., 3 So., 2 Fr. Total 24 (+ 1 Aud.).
- S20.** Mr. RAMIRO ARRATIA. — Advanced Work. 6 S.S. Total 6.

SECOND SESSION

CHEMISTRY

- SB. Professor G. W. HARRIS (Simmons College). — Inorganic Chemistry. (A.B., A.A., S.B.)
12 S.S., 1 Se., 2 Ju., 1 So., 3 Fr., 1 uC. Total 21 (+ 2 Aud.).
- S2. Dr. J. B. CONANT. — Organic Chemistry. (A.B., A.A., S.B.)
19 S.S., 4 Se., 8 Ju., 2 So., 2 Fr., 2 ocC., 2 uC. Total 39.
- S20h. Asst. Professor G. S. FORBES. — Research in Physical Chemistry.
1 S.S. Total 1.
- S20l. Dr. J. B. CONANT. — Research in Organic Chemistry.
9 S.S. Total 9.
- S22. Dr. J. B. CONANT. — Experimental Organic Chemistry. (A.B., A.A., S.B.)
5 S.S., 5 Ju., 3 Fr., 1 Sp., 1 ocC., 1 uC. Total 16.

ECONOMICS

- SA. Dr. E. E. LINCOLN. — Principles of Economics. (A.B., A.A., S.B.)
21 S.S., 2 Se., 13 Ju., 12 So., 5 Fr., 1 Sp., 2 ocC., 5 uC. Total 61.
- S2. Dr. E. E. LINCOLN. — Selected Topics in European and American Economic History. (A.B., A.A., S.B.)
18 S.S., 3 Se., 8 Ju., 9 So., 2 Fr., 1 Sp., 1 ocC., 2 uC. Total 44.
- S20. Dr. E. E. LINCOLN. — Advanced Work.
7 S.S., 3 Ju., 2 So., 1 ocC. Total 13.

EDUCATION

- S20. Professor H. W. HOLMES. — Problems of Education.
16 S.S., 1 Se. Total 17.

ENGLISH

- SA. Mr. T. L. HOOD. — English Composition and Methods of Teaching. (A.A.)
6 S.S., 1 Se., 4 Fr., 2 uC. Total 13.
- SC. Associate Professor NORMAN FOERSTER (University of North Carolina). — English Composition (Advanced course). (A.A.)
9 S.S., 1 Ju., 1 ocC. Total 11.
- SE. Mr. T. L. HOOD. — Special Instruction in English for Foreign Students.
6 S.S., 1 uC. Total 7.
- S11b. Associate Professor J. H. HANFORD (University of North Carolina). — Milton. (A.B., A.A., S.B.) 2 S.S., 2 Se., 7 Ju., 7 So., 8 Fr., 2 Sp., 2 ocC., 6 uC. Total 36 (+ 1 Aud.).
- S2. Professor CARLETON BROWN (University of Minnesota). — Shakspeare. (A.B., A.A., S.B.)
26 S.S., 3 Se., 8 Ju., 4 So., 2 Fr., 1 Sp., 3 ocC., 11 uC. Total 59.
- S20. Professor CARLETON BROWN (University of Minnesota). — Advanced Work.
8 S.S., 3 Gr., 1 ocC. Total 12.

FINE ARTS

- S1d. Asst. Professor G. H. EDGELL. — History of Mediaeval, Renaissance, and Modern Art. (A.B., A.A., S.B., and A.M.) 20 S.S., 5 Se., 18 Ju., 18 So., 4 Fr., 1 Sp., 3 ocC., 7 uC. Total 76 (+ 2 Aud.).
- S20. Asst. Professor G. H. EDGELL. — Advanced Work. 3 S.S. Total 3.

FRENCH

- SA. Mr. G. B. WESTON. — Elementary French. (A.A.)
12 S.S., 1 Ju., 2 So., 2 Fr., 4 uC. Total 21 (+ 1 Aud.).
- S1. Mr. E. L. RAICHE. — Second-year College French. (A.B., A.A., S.B.)
7 S.S., 2 Ju., 2 uC. Total 11.
- S2. Mr. E. L. RAICHE. — Third-year College French. (A.B., A.A., S.B.)
3 S.S., 1 Gr., 3 Ju., 7 So., 2 Fr., 2 uC. Total 18.
- S5. Mr. L. J. A. MERCIER. — French Composition and Conversation. (A.B., A.A., S.B.) 3 S.S., 1 Se., 3 Ju., 1 So., 2 ocC. Total 10.
- S10. Mr. L. J. A. MERCIER. — Social Background of French Literature. (A.B., A.A., S.B., and A.M.)
7 S.S., 2 Se., 7 Ju., 4 So., 3 ocC., 1 uC. Total 24 (+ 1 Aud.).
- S20. Mr. L. J. A. MERCIER. — Advanced Work. 1 S.S., 1 Gr. Total 2.

GERMAN

- SA. Dr. FRIEDRICH SCHOENEMANN. — Elementary German. (A.A.)
7 S.S., 2 Ju., 4 So., 5 Fr., 2 Sp., 4 uC. Total 24.
- S1. Dr. R. W. PETTENGILL. — Second-year College German. (A.B., A.A., S.B.)
1 S.S., 1 So. Total 2.
- S2. Dr. R. W. PETTENGILL. — Third-year College German. (A.B., A.A., S.B.)
1 S.S., 1 uC. Total 2.
- S4. Dr. FRIEDRICH SCHOENEMANN. — German Dramatists of the Nineteenth Century. (A.B., A.A., S.B., and A.M.)
1 S.S., 1 Ju., 2 So., 1 uC. Total 5.

GOVERNMENT

- S1. Asst. Professor A. N. HOLCOMBE. — Modern Government. (A.B., A.A., S.B.)
11 S.S., 6 Ju., 9 So., 7 Fr., 2 ocC., 8 uC. Total 43 (+ 2 Aud.).
- S2. Asst. Professor A. N. HOLCOMBE. — Introduction to Political Science. (A.B., A.A., S.B., and A.M.) 19 S.S., 1 Se., 22 Ju., 17 So., 2 Fr., 1 Sp., 5 ocC., 10 uC. Total 77 (+ 2 Aud.).
- S20. Asst. Professor A. N. HOLCOMBE. — Advanced Work.
5 S.S., 1 Gr., 1 Se., 2 Ju., 1 So. Total 10.

HISTORY

81. Mr. R. P. ARRAGON. — European History since the Reformation. (A.B., A.A., S.B.)
13 S.S., 2 Ju., 3 So., 3 Fr., 5 uC. Total 26 (+ 1 Aud.).
814. Professor F. M. ANDERSON Dartmouth College. — History of France since 1496. (A.B., A.A., S.B., and A.M.)
12 S.S., 1 Se., 4 Ju., 2 So., 1 Fr., 3 uC. Total 23.
- 832b. Mr. FREDERICK MERK. — History of the United States from 1830 to the Present Time. (A.B., A.A., S.B.)
15 S.S., 2 Se., 12 Ju., 15 So., 5 Fr., 4 ocC., 2 uC. Total 55.
834. Professor F. M. ANDERSON Dartmouth College. — The Relations between the United States and Great Britain from 1783 to the Present Time. (A.B., A.A., S.B.)
7 S.S., 2 Se., 11 Ju., 8 So., 1 Fr., 3 ocC., 2 uC. Total 34 (+ 2 Aud.).

ITALIAN

81. Mr. G. B. WESTON. — Elementary Italian. (A.B., A.A., S.B.)
1 S.S., 2 Ju., 2 So., 2 Fr., 1 ocC., 1 uC. Total 9.
85. Mr. G. B. WESTON. — Modern Italian Literature. (A.B., A.A., S.B., and A.M.)
2 S.S., 3 So. Total 5.
820. Mr. G. B. WESTON. — Advanced Work. 1 S.S. Total 1.

LATIN

81. Asst. Professor R. K. HACK. — Virgil. (A.B., A.A., S.B., and A.M.)
3 S.S., 2 So. Total 5.
820. Asst. Professor R. K. HACK. — Advanced Work. 1 S.S., 1 Gr. Total 2.

MATHEMATICS

81. Asst. Professor G. D. BIRKHOFF. — Trigonometry. (A.B., A.A., S.B.)
7 S.S., 1 Ju., 1 Fr., 1 ocC. Total 10.
811. Asst. Professor G. D. BIRKHOFF. — Analytic Geometry. (A.B., A.A., S.B.)
10 S.S., 1 Ju., 2 So., 2 Fr., 1 uC. Total 16.
820. Asst. Professor G. D. BIRKHOFF. — Advanced Work.
2 S.S., 1 Gr., 1 Se., 1 Ju., 2 So. Total 7.

PHILOSOPHY

- 8B. Dr. H. M. SHEFFER. — History of Modern Philosophy. (A.B., A.A., S.B.)
14 S.S., 4 Se., 1 Ju., 3 So., 10 Fr., 1 ocC., 4 uC. Total 37 (+ 1 Aud.).
81. Dr. H. M. SHEFFER. — Introduction to Philosophy. (A.B., A.A., S.B.)
4 S.S., 1 Se., 4 Ju., 2 So., 4 Fr., 1 ocC., 2 uC. Total 18.
820. Dr. H. M. SHEFFER. — Advanced Work. 1 Gr. Total 1.

PHYSICS

- S3. Asst. Professor E. L. CHAFFEE. — Electrostatics, Electrokinematics, and parts of Electromagnetism. (A.B., A.A., S.B., and A.M.)
4 S.S., 5 Se., 3 Ju., 1 So., 1 Fr. Total 14 (+ 1 Aud.).

SPANISH

- S1. Mr. GUILLERMO RIVERA. — Elementary Spanish. (A.B., A.A., S.B.)
12 S.S., 5 Ju., 2 So., 1 Sp., 1 ocC., 2 uC. Total 23.
- S8. Mr. GUILLERMO RIVERA. — Spanish Composition and Conversation (Advanced course). (A.B., A.A., S.B., and A.M.)
5 S.S., 1 Se., 3 Ju., 3 So. Total 12 (+ 2 Aud.).
- S20. Mr. GUILLERMO RIVERA. — Advanced Work.
3 S.S., 1 So. Total 4.

The total number of persons in attendance was as follows: —

	1916	1917	1918	1919	
				1st sess'n	2d sess'n
Total number of students	1044	771	1245	1729	647
" " " men	495	287	815	1066	593
" " " women	549	484	430	663	54
Percentage of men	47 %	37 %	65 %	62 %	92 %

This body of students was made up as follows: —

	1916	1917	1918	1919	
				1st sess'n	2d sess'n
Students at Engineering Camp ¹	10	0	0	3	0
Students in Reserve Officers' Training Corps.	0	0	522	0	0
Harvard Students of preceding academic year: ²					
Members of graduate and professional schools	18	16	10	63	42
Undergraduates in good standing	89	42	52	435	337
Undergraduates with deficient record	43	5	16	92	0
Special Students, Arts and Sciences	0	5	5	9	8
Radcliffe Students of preceding academic year	12	29	18	34	14
Students in Physical Education Courses	218	190	180	200	0
Students from outside in general courses	657	491	443	909	246
	1047	778	1246	1745	647
Names counted twice	3	7	1	16	0
	1044	771	1245	1729	647

¹ Not including Engineering Camp students who were at the time members of Harvard University.

² Not including members of the Reserve Officers' Training Corps.

The composition of the group entitled "Students from Outside in General Courses" was as follows:—

	1916	1917	1918	1919	
				1st sess'n	2d sess'n
Teachers and school officers:					
Professors and college instructors	53	34	19	60	23
Normal School teachers	10	10	8	5	0
High School teachers	116	91	82	137	12
Junior High School teachers	8	14	5	26	0
Grade school teachers	99	72	55	98	3
Endowed and private school teachers	53	35	18	47	13
Other teachers	40	26	15	43	1
Superintendents, supervisors, and principals	45	23	53	61	3
Total teachers and school officers	424	305	255	477	55
Men	145	87	88	139	35
Women	279	218	167	339	20
Percentage of men	34 %	29 %	34 %	29 %	63 %
Students from other colleges					
Students from preparatory schools	2	6	13	19	3
Other students	10	19	6	48	33
Other occupations than teaching	67	54	61	74	19
Occupation not given	58	53	36	89	23
	233	186	188	432	191
	424	305	255	477	55
Total students from outside, general courses	657	491	443	909	246
Men	276	179	187	429	208
Women	381	312	256	480	38
Percentage of men	42 %	36 %	42 %	47 %	84 %

In this body of "students from outside" there were:—

	1916	1917	1918	1919	
				1st sess'n	2d sess'n
Holders of A.B., S.B., or some equivalent degree	222	172	84	254	80
Holders of a higher degree	63	50	109	91	35
Members of the Summer School in one of preceding five years	102	94	73	100	58

The geographical distribution of this same group was as follows:—

	1916	1917	1918	1919	
				1st sess'n	2d sess'n
New England States	346	308	268	563	160
Middle States	140	87	60	148	34
South Atlantic States	45	21	31	44	7
South Central States	16	9	24	12	6
North Central States	75	34	22	94	24
Western States	19	13	11	6	5
Foreign Countries	16	19	27	42	10
	657	491	443	909	246

II. COMMISSION ON EXTENSION COURSES

REPRESENTING

Harvard University	Boston University
Tufts College	Museum of Fine Arts
Mass. Institute of Technology	Wellesley College
Boston College	Simmons College
Massachusetts Board of Education	
School Committee of the City of Boston	

The following courses were offered in 1918-19. The table shows for each course the number of students in the course and the number of certificates granted:—

	Students	Certificates
Botany (Professor W. J. V. Osterhout).....	24	14
Economics (Dr. E. E. Lincoln).....	40	8
Education:		
Educational Measurement (Professor W. F. Dearborn).....	18	14
Educational Measurement (Advanced course) (Professor W. F. Dearborn).....	17	14
Teaching and Supervision of Teaching (Professor H. W. Holmes).....	40	2
English:		
Elementary English Composition (Mr. F. W. C. Hersey).....	118	42
Advanced English Composition (Professor D. L. Sharp).....	60	14
Shakespeare and the English Drama (Professor E. C. Black).....	55	24
English Letter-Writers (Professor C. T. Copeland)....	170	14
Oral English (Professor I. L. Winter).....	4	0
Public Speaking (Professor I. L. Winter).....	15	0
Fine Arts:		
Artistic Expression (Mr. Huger Elliott).....	7	1
Evolution of Painting (Mr. Huger Elliott).....	11	1
Food and Nutrition (Professor L. C. Newell).....	47	9
French:		
Elementary (Professor James Geddes, Jr.).....	65	15
Second-year (Professor James Geddes, Jr.).....	20	8
Intermediate (Professor James Geddes, Jr.).....	21	9
Current French Literature (Professor James Geddes, Jr.).....	23	6
Teaching of French (Mr. L. J. A. Mercier).....	30	11
Geography (Professor Elizabeth F. Fisher):		
Geographic Influences in the Development of Europe..	35	17
Our National Resources and their Conservation.....	81	14
Geology (Professor G. H. Barton):		
Mineralogy.....	20	9
Dynamical Geology.....	23	11
German (Professor M. L. Perrin):		
Literature, Composition, and Conversation.....	22	15
Principles of Grammar.....	36	29

	Students	Certificates
History (Professor A. I. Andrews).....	35	7
Italian History and Literature (Dr. George LaPiana).....	12	2
Music (Professor J. P. Marshall).....	33	5
Psychology and Ethics (Professors Mary W. Calkins, and Eleanor A. McC. Gamble, and Miss Flora I. Mackinnon)	31	6
School of Social Work.....	2	2
Spanish (Professor E. F. Langley):		
Elementary.....	27	12
Advanced.....	24	13
Zoölogy (Professor G. H. Parker).....	17	5
	<hr/> 1184	<hr/> 353

The proportion of certificates to the total enrolment was thirty per cent. All the courses were accepted for the degree of A.A. by Harvard University, Radcliffe College, Tufts College, and Wellesley College.

III

In 1918-19 forty-three men were registered as Special Students under the Faculty of Arts and Sciences. These students entered thirty-six full courses, thirty-two two-thirds courses, and sixty-one one-third courses, of which nineteen full courses, fifteen two-thirds courses and thirty-six one-third courses were completed with the following grades: A, seven; B, twenty-four; C, twenty-one, D, eighteen. Of the forty-three students, twenty-seven completed at least one course or one-third course.

The registration and immediate supervision of the Special Students was in charge of Assistant Professor A. F. Whittam, Secretary of the Administrative Board for University Extension and for Special Students.

The number of Special Students registered November 1, 1919, was sixty-eight. Their average age was twenty-seven and a half. Twenty-two are of foreign birth. By occupation ten are teachers; thirteen have no other occupation than student. Thirty-five have enrolled in four or more courses.

IV

At Commencement, 1919, the degree of A.A. was conferred by Radcliffe on

Marguerite Condon
Anne Ruth Mohan

JAMES HARDY ROPES, *Dean*.

RADCLIFFE COLLEGE

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit the report of Radcliffe College for the academic year 1918–19.

The number of students in actual attendance during the year was 556.

Graduate Students.....	82
Seniors.....	106
Juniors.....	109
Sophomores.....	83
Freshmen.....	92
Special Students.....	34
Unclassified Students.....	50
<hr/>	
Total.....	556

The largest number of students outside of Massachusetts came from New York, with New Hampshire and Illinois next, nearly equal. The total shows about sixty less names than the enrolment of the year before. An interesting thing about the figures during the last few years is the steady increase of unclassified students, who have come to us from other colleges.

The number of teachers taking courses last year without charge was exactly the same as a year ago — fifteen. These teachers are admitted under the arrangement with a few public schools by which, in return for an opportunity given Radcliffe students to teach in these schools in connection with their work in Education, a certain number of teachers are given free instruction in Radcliffe College. Three of the fifteen elected Harvard courses, for which Radcliffe pays the University. Three mistresses of halls, one assistant in the Radcliffe office, and one Radcliffe graduate who is an assistant in the Fogg Art Museum, also took courses without charge. On teachers' rates four teachers were admitted to take Harvard courses, and six were admitted to Radcliffe courses.

In 1918–19, thirty students were admitted to fourteen whole courses, and thirty-one students to twelve half-courses or third-courses in Harvard University. Eleven instructors directed the work in research of twenty students. This is in each case a smaller number than the year before, partly because of the lesser total enrolment of the College, but more especially because the gradu-

ate students were less in number, and they are the ones who are in general admitted to Harvard courses and courses of research. Although Harvard University divided its courses into thirds during the year, instead of the regular division into halves, Radcliffe College kept the old arrangement, having mid-years as usual in February. The Academic Board voted to have the work carried on this way, as it seemed wise to them, and as it met the approval of most of the instructors. The plan worked very smoothly, and saved us from having to make a second change for the coming year.

Eighty-two graduate students registered during 1918-19, fifty-four of whom were from colleges other than Radcliffe. Eighteen of these came from Smith and Wellesley. Boston University, Mount Holyoke, and Vassar sent four or five each, and the rest came from colleges scattered over the country, as far west as the University of Nebraska, and as far south as John B. Stetson University in Florida.

At Commencement, in June, 1919, two students received the degree of Associate in Arts. One hundred students received the degree of Bachelor of Arts, thirty-two *cum laude*, eight *magna cum laude*, and one *summa cum laude*. The degree of Master of Arts was conferred on nineteen candidates. Eight of these had taken their first degree at Radcliffe College, while the rest represented nine different colleges. Two candidates received the degree of Doctor of Philosophy:

Nellie Gertrude Chase, B.L. (*Smith College*) 1898, A.M. (*Cornell University*) 1905. Subject, Philology; Special Field, English Philology; Dissertation, Studies in Allegory in English Literature of the Eighteenth Century.

Marian Irwin, A.B. (*Bryn Mawr College*) 1913. Subject, Biology; Special Field, General Biology; Dissertation, Effect of Electrolytes and Non-electrolytes on Organisms in Relation to Sensory Stimulation and Respiration.

The Caroline I. Wilby Prize, for the best original work in any department, was divided between the two candidates for the Doctor's degree, for their Doctor's dissertations. The Captain Jonathan Fay Diploma and Scholarship, for the Senior who in the judgment of the Academic Board has shown the greatest promise, was awarded to Ethel Maude Spurr, of the Class of 1919. The Phi Beta Kappa Prize of \$50, which goes to the ranking member of the Junior Class, was divided this year between Romaine Elizabeth Boody and Mary Lydston Johnson. For a second time a Carnegie Fellowship has been awarded to Bernice Veazey Brown,

A.B. 1916, A.M. 1918, who held this same fellowship in 1917-18. Elizabeth Boyd Benton, of the Class of 1920, received half of the Bowers Prize for the best work in drawing and painting, which is in the award of the Fine Arts Department of Harvard University.

Seventy-nine whole or partial scholarships have been awarded for 1919-20, to 10 Graduate Students, 26 Seniors, 16 Juniors, 18 Sophomores, 8 Freshmen, and 1 Special Student. This list includes, beside the regular college scholarships, scholarships that are awarded to Radcliffe women by outside clubs and organizations in conference with the college committee on scholarships. The largest award is a scholarship of \$500, given to a French Government student who is to do graduate work in English.

The gifts to the College during the year include money gifts from the classes of 1894, 1904, 1909, 1914, and 1919; a gift of money from the Division of Modern Languages and the Department of English — one-half the sum received by the examiners of Radcliffe candidates for honors and distinction; \$5000 from Mrs. Bertha Taylor Sargent, for the establishment of the Mary Catherine Parker Fund, which is ultimately to be available for scholarships; \$12,954 from the bequest of Charles Follen Atkinson in memory of Susan Parkman Atkinson; further additions to the Abigail W. Howe bequest, and to the fund established by the Berkeley Street School Association. An interesting bequest of furniture and paintings, some of them family portraits, which was made to the College by Susan Parkman Atkinson, has been used for the alumnae room at the top of Fay House. This room is to be called the Atkinson Room in memory of Sarah Cabot Parkman Atkinson, William Parsons Atkinson, and Charles Follen Atkinson.

The following figures give the results of the admission examinations in 1919:

Admitted without condition by Old Plan	9	
Admitted without condition by New Plan	<u>47</u>	
		56
Admitted with condition		<u>39</u>
Total admitted		95
Refused admission by Old Plan	19	
Refused admission by New Plan	<u>34</u>	
Total refused admission		<u>53</u>
		148
Candidates taking examinations both in June and September and counted twice		<u>3</u>
Total number of final candidates		145

Although the number admitted is practically the same as last year, a greater number tried the examinations, and a greater number failed. To have fifty-three refused admission, while ninety-five are admitted, shows a tremendous per cent of failures. This state of affairs is probably on account of the interruption to school work caused by the influenza last fall, by the number of outside war interests to which preparatory school students were giving time, and by the uncertainties on the teaching side as so many teachers were away from their regular positions. In general, the students who are finally admitted we find prepared to do the work. The number dropped at the end of the Freshman year is always extremely small.

The members of the Academic Board for the year 1918-19 were Professor K. G. T. Webster, and Professors H. S. White, E. L. Mark, E. H. Hall, H. W. Smyth, C. L. Kittredge, C. H. Grandgent, G. P. Baxter, and W. S. Ferguson. During Dr. Webster's absence in Washington, Professor White acted as chairman for the Board.

On the nomination of the alumnae, Marian Blackall Miller, A.B. 1911 (Mrs. Hans W. Miller), has been elected a member of the Associates for a term of six years from 1919. Professor Frederick Jackson Turner has been elected a member of the Associates for a term of three years from 1919. Professor Fred Norris Robinson has been elected a member of the Council for a term of seven years from 1919. In the absence of Mr. Briggs Professor Robinson served as Acting President for the second half-year.

In January, the Treasurer of the College, and the President, the Dean, and the Secretary went before the Education Committee of the Legislature to ask permission for the College to increase its holdings from five million dollars to ten million. This right was granted by the Legislature.

BERTHA M. BOODY, *Dean.*

APPENDIX

REPORT OF THE CHAIRMAN OF THE COMMITTEE ON ADMISSION

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit to you my report as Chairman of the Committee on Admission.

During the past year, the Committee have received and acted upon 1304 applications for admission:

Applications for admission to the Freshman Class	746
Applications for admission as Special Students	78
Applications for admission from other colleges	404
Applications for admission on grounds of War Service	76

Total	1304
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This was an increase of 299 applications over the previous year.

In addition to these cases, the Committee enrolled over twelve hundred men in the Government units established in the fall of 1918. It is not possible to state exactly how many men were considered for the units, for in the confusion of the early days of the S. A. T. C. no record could be made of those whose school training did not correspond to the very moderate standard exacted by the Government. Those whom we had to refuse needed their papers in seeking admission elsewhere. Later, when the armistice was concluded, the Committee undertook the task of selecting those whose work was sufficiently good to entitle them to remain throughout the remainder of the College year, and at the end of the year of transferring those whose work was of Freshman standard to the standing of candidates for degrees.

The results of the Government units are shown in the following tables: —

Total number admitted to the units	1202
Total number who remained throughout the year	85
Number dropped at the end of the year for low record	16
Number promoted to a College class	69

Nearly all these men were products of the public high schools; and very many — perhaps the majority — had pursued programmes which would not have enabled them to enter College. The College is often upbraided for not regarding such programmes as a good preparation for college work, and for not recognizing them in its requirements for admission. When hereafter reproached for “tyranny” in not admitting young men who have had no other preparation, it may be pointed out that out of the very large number who sought and obtained admission to the Government units only about five per cent were either desirous or capable of doing college work.

The detailed statement of the action of the Committee upon applications for admission to the Freshman Class is as follows: (For purposes of comparison, I give similar figures for 1917 and 1918.)

Applications for Admission to the Freshman Class

	1917	1918	1919
Admitted without conditions (Old Plan)	168	152	167
" " " (New Plan)	288	244	228
Total number admitted without conditions ..	456	396	395
Admitted with conditions (Old Plan)	121	129	132
Total number admitted	577	525	527
Refused admission (Old Plan)	73	75	91
" " (New Plan)	81	70	104
Total refused admission	154	145	195
Percentage of refusal	20.7	21.04	26.1
Candidates in June who did not appear in September ..	12	19	24
Total number of final candidates	743	689	746

In the statistics for 1918 were included 46 men admitted as Freshmen without examination because of war service of various kinds. The comparison between the figures for 1918 and 1919 will be more nearly exact, perhaps, if we include in the figures for 1919, 60 men who were allowed to enter without examination as Unclassified Students, and who are practically in the position of Freshmen. These men had all finished their school work, and were in the position of final candidates for admission at the time they entered the service. By vote of the Faculty, the Committee were allowed to admit without examination men who were prevented from taking examinations at the natural time by reason of enlistment. The variety of records and conditions among such candidates was so great that the Committee felt that their positions with respect to a degree could be most justly settled after they had been a year in college; and therefore they were registered as Unclassified Students, a classification hitherto reserved for men admitted from other colleges. As, however, none of them have ever done any college work, we shall have a better comparison of the number of men seeking admission from secondary schools if we add these to the numbers given above. A revised summary would be as follows:—

	1917	1918	1919
Total number admitted	577	525	587
Total number seeking admission from secondary schools ..	743	689	815

The total number of men seeking admission from secondary schools was larger than in the year in which we entered the war; and the total number of men admitted was larger. We are not yet, however, quite back to a pre-war basis, and in view of all that has happened and the extraordinary confusion into which the schools have been thrown should not, perhaps, expect to recover so soon.

The disturbance in the schools from which the College draws its students is indicated by the higher percentage of candidates refused because of bad records. There has been much in the last few years to make preparation for college unusually difficult, apart from the war, which unsettled the minds of boys approaching college age, and caused a shortage of teachers. We have had two epidemics and a serious shortage of coal, all three of which caused the schools to close, and shortened the school year. In considering records this year, the Committee tried to make proper allowances for these reasons for poorer records; but though each case had individual attention the Committee found that in view of the facts before them they could not admit quite so high a percentage as usual.

Of candidates by the New Plan, thirty were reported as failing in all four examinations, twenty-six in three of the four, thirty-six in two of the four, and twelve in one. Even when their papers were reported as passable, they were reported as unsatisfactory. Of the four hundred and sixteen papers written by these men, only thirty-five were reported as at all satisfactory; and some of these were doubtful.

Of the ninety-one men refused admission by the Old Plan, three were refused in June and had an opportunity to enter in September of which they did not avail themselves. Of the remainder, only two were what the Committee call "line cases" — that is, they had records indicating a deficiency of not more than half a year of school work and in every one of these cases there was evidence apart from the number of examinations that they had passed that indicated that they were not worthy of admission. Fifty-five passed examinations counting less than twelve units; and some of these passed no examinations at all. It did not seem to the Committee, therefore, that though conditions this year were extraordinary they had been too severe. In all cases of doubt in which there was some evidence of individual ability they gave the candidate the benefit of the doubt, hoping that if events proved that they had erred the Faculty would excuse them in view of the difficulties of the situation.

The number of students seeking admission from other colleges has increased rather surprisingly. The figures are as follows: —

	1917	1918	1919
Admitted from other colleges	123	243	322
Refused admission	38	33	82
	—	—	—
Total	161	276	404

Of the men admitted from other colleges, 214 have actually registered; and these represent 97 different institutions and 43 states and foreign countries.

An examination of the colleges from which these men came shows that 142 or 50 per cent came from colleges outside of New England. A similar examination of the men admitted as Freshmen shows that only 116 or 20 per cent came from schools outside of New England. (Tables showing the geographical distribution of both kinds of applicants will be found in the Appendix.)

As the facts given above will suggest, the representation in College of districts outside New England is due to students from other colleges

rather than to men admitted as Freshmen; and this is explained by the different methods of admission used in each case. If a student seeks admission from a secondary school, he must be told that he must take examinations either in June or in September. If he lives far from Cambridge, this may practically mean that he must wait until the middle of the summer before the question of his admission can be decided. The taking of examinations may involve a very expensive journey to an examination centre and residence for a week in an unfamiliar large city — an experience to which some parents naturally object. The long period of uncertainty prevents him from making his plans; and he may find in August, when it is difficult to make connections with any other college, that he is a hundred dollars poorer and that he is not only denied admission to the college of his choice but that he rests under the stigma of failing in tests which may seem to his teachers as well as to himself no fair measure of his ability to do the college work to which he seeks admission.

On the other hand, a man who seeks admission from another college may learn at once that his admission will depend upon his success or failure in the work that he has actually in hand, and that if he does satisfactory work in the studies he is at that time pursuing he will be admitted to Harvard. He can make his plans with the certainty that so far as admission is concerned he will be judged by his record in the college he is attending, and that his acceptance as a candidate for a Harvard degree will depend on his total school and college record at the end of his first year in Harvard. He is put to no unusual expense, and subjected to no tests which seem arbitrary, and which are unconnected with the work which he has actually in hand. By this method of admission, it will be observed, a distinction is made between admission and matriculation. Admission is judged solely by the quality of a man's work; matriculation depends upon his having done those tasks which the rules of the Faculty impose upon all students who are candidates for degrees. If he has omitted before coming to Harvard any study required for candidacy for a degree or for the degree itself, the probationary year gives him an opportunity to repair the defect in his record.

In view of our success in obtaining good students by a method which determines admission by evidence as to qualifications other than that derived from examinations, it may be well to review some results of our New Plan of admission which has now been in operation eight years. One of our chief reasons in establishing this plan was to make connections between the University and schools at a distance, particularly the public high schools. That this hope has not been realized will be shown by the following figures: —

Percentage of Students from Schools Outside New England

1911	1912	1913	1914	1915	1916	1917	1918	1919
20	22	20	21	20	23	24	22	23

The percentage of Freshmen from outside New England has remained about the same. The variation during the years of the war was due to the fact that a larger percentage of students who would normally have come

to Harvard from schools in New England enlisted in some form of war service.

Practically the same story is told by the percentages of men admitted from public high schools.

1911	1912	1913	1914	1915	1916	1917	1918	1919
50	48	49	45	44	43	40	41	43

It would be a mistake to infer from this that our New Plan has not been successful. Though we have not increased our representation of high schools and of students from outside New England, the number of such students has not diminished; and in my opinion there would have been a serious diminution if we had not adopted the New Plan, and if we had not more than quadrupled the range of our examinations by joining the College Entrance Examination Board. No plan of admission can create candidates for admission—it can only provide a reasonable means of distinguishing the good from the bad among those who seek admission; and this the New Plan has done. The real reasons why we have not realized our hopes are such economic reasons as I have cited above in explaining the difference between the methods we follow in admitting from schools and in admitting from colleges—the practical difficulties of taking any examinations, the expense involved, and the long uncertainty as to results which prevent a candidate from making plans for his college education until it may be too late to secure admission to another college if he proves not equal to our standard. No plan of admission which includes examinations will remove these difficulties; and therefore, in view of our success in the methods used with students who seek admission from other colleges, I should like to suggest that we extend those methods to secondary schools. This same conclusion has recently been arrived at in England, where a committee assembled to consider the relations between secondary schools and the English universities have proposed:

“That every university, as one regular method of procedure, should admit students who submit evidence (satisfactory to the university) as to qualifications, other than that derived from examinations.”

It may naturally be objected that what I am proposing is “admission on certificate”; but the method I have in mind does not resemble what that term means in America except that examinations are not required. What I have in mind is a combination of the New Plan and the method now successfully used in dealing with applicants for admission from other colleges. As in the latter case, I should admit on evidence other than that derived from examinations; but I should make matriculation depend upon the candidate's proving that he can do college work of the Harvard standard. I should, moreover, limit this method of admission to candidates to whom the examinations are not easily accessible. If the Faculty would trust the Committee to make for three years the experiment of admitting men from secondary schools by a method analogous to that already successfully used in admitting men from other colleges, I am sure

that the results would fully justify both by an increased number of excellent students from a wider range of the country. What I am proposing is neither new nor untried — already one-fifth of the College is thus admitted. These students would register as Unclassified Students, or, as I should prefer, as First-Year Students (unmatriculated), a term which I should also apply to men admitted from other colleges. It would always be open to these men fully to matriculate by the New Plan by means of the September examinations without the expense and the uncertainty which now prevent so many from applying for admission at all.

How much economic reasons have to do with admission will be shown by the falling off of our Harvard Club scholarships during the war. These scholarships, together with the New Plan, have been powerful agents in attracting students from outside New England.

Number of Harvard Club Scholarships	1911	1912	1913	1914	1915	1916	1917	1918	1919
Inside New England	17	10	21	19	13	14	13	7	9
Outside New England	17	22	23	22	24	35	20	17	10
	—	—	—	—	—	—	—	—	—
Total	34	32	44	41	37	49	33	24	19

Though the New Plan has not altogether realized our hopes in regard to extending our influence, it has prevented a probable decrease in the number seeking admission from public high schools, and has certainly improved our relations with those schools. As I have pointed out in previous reports, it has brought to us men each year who could not have entered by the Old Plan, and who have more than justified their admission by their work in College. But with respect to the preparatory schools from which we derive more than half our students the New Plan has not proved wholly satisfactory either to the College or to the schools. As our experience with the Plan has widened, I have gradually come to believe that the Plan, originally established mainly for the public high schools, should never have been extended to preparatory schools in its present form. There was a good reason from the point of view of the College for making a distinction; and I am now convinced that it would have been wiser to do so. But apart from reasons why the Plan has not worked altogether well with such schools from the point of view of the College, the Plan has not proved as satisfactory to this type of school as was hoped.

The Plan rests upon the assumption that whoever presents himself for examination by it shall have a school record covering four years, and showing that he has always done his work satisfactorily. From the first, the preparatory schools were shy of the Plan; for they well knew that all the boys whom they had accepted for preparation for college could not present records that showed satisfactory work. Some schools, anxious for the freedom which the New Plan allows, in arranging school programmes decided to send their boys up for examination by the Plan; but they soon found that they could not secure the advantages of the Plan unless they could use it for all; and it was apparent that all the boys whom they had accepted could not be admitted by it. In every preparatory school, there are sure to be some few boys whose parents insist that

they shall go to college, but whose maximum effort or ability never goes beyond the minimum promoting grade of the school; and experience shows that the standard of graduating from a school is always a little lower than the standard of admission to college. Schools which decided to use the New Plan in order to effect desired changes in their curriculum found themselves in an embarrassing situation when some of their boys were refused admission. There was nothing to do with these boys so far as Harvard was concerned except to put them under a tutor during the summer, with the hope that they would succeed in passing enough examinations under the Old Plan in September to secure their admission; and this, on account of the number of examinations which this Plan prescribes, was an almost impossible task for such boys. It was also a course of action which benefited no one except the tutor. The fault, of course, was in allowing these boys to proceed as far as the graduating class; but there are always cases in which it is almost humanly impossible to do otherwise. Such boys will always exist, I suppose; and no plan that any one can devise will ever make them other than a problem both for the school and the College; but it seems hard that the undoubted benefits of the New Plan should practically be denied to this type of school because a decision by it cannot be made until so late that any other wise course of action is impracticable.

I believe that the following modification of the Plan might make it practicable for the kind of school that I have referred to above. Let there be an optional First Examination, to be taken a year before entrance to college. Such examination should consist of not less than four subjects. If a boy fails, he has a whole year in which to adjust himself; and the evil of the summer tutor is avoided. The school is also put in a much more comfortable position with the parent from whom it has accepted the boy to prepare for college; and the blame can be put where it belongs — on the boy.

In practice, this plan, if adopted, would prove a compromise between the Old and the New Plans. It would mean that those candidates who took the optional first examination would enter on eight examinations, and would secure admission without conditions somewhat more easily, though not much, than at present. But the standard of their admission would be as high as admission with conditions is at present; and I know no one who regards the present system of admitting with conditions as anything but an evil. It would allow all schools to secure the advantages of the New Plan, and would assist them by fixing a standard which did not compel them to distort their programmes. Such tests as a boy took would come at natural periods, and the evil of cramming would be avoided for all except those for whom it was obviously the only resource.

The advantages that I believe may be secured are:—

1. We could do away with the clumsy practice of two examination plans.
2. We could abolish admission with conditions.
3. We should meet the present just criticism of the schools that for the Old Plan type of candidate the last two years of school are overcrowded for examination purposes.

Of course, if these suggestions seem worthy of further consideration there should be some conference with heads of schools who may point out

some difficulties which I have overlooked. I feel sure, however, that we could wisely admit some students on evidence other than that secured by examination, and that some such modification of the New Plan as I have suggested might make it the one examination plan, and more useful both to the College and the schools. I also feel sure that these methods of admission can be so administered as to increase the number of well prepared students.

JOHN GODDARD HART,

Chairman of the Committee on Admission.

AVERAGE AGES AT OPENING OF COLLEGE YEAR

OLD PLAN CANDIDATES

	1916	1917	1918	1919
Admitted clear	18.35	18.26	18.01	18.08
Admitted with conditions	18.82	18.68	18.51	18.41
Refused admission	19.23	19.14	18.40	18.65

NEW PLAN CANDIDATES

Admitted	18.42	18.44	18.08	18.04
Refused admission	18.83	18.54	18.35	18.12

NEW PLAN APPLICANTS

	1916	1917	1918	1919
Total number of school records presented	496	463	431	441
“ “ “ “ “ approved	428	431	391	376
“ “ “ “ men examined	347	347	281	332
“ “ “ “ admitted	242	288	244	228
“ “ “ “ refused on their school records	68	32	40	65
“ “ “ “ “ after examination	105	81	70	104

UNCLASSIFIED STUDENTS. — GEOGRAPHICAL DISTRIBUTION OF MEN ACTUALLY REGISTERED, 1919-20

NORTH ATLANTIC DIVISION		NORTH CENTRAL DIVISION	
New Hampshire.....	1	Iowa.....	1 (1)
Vermont.....	1	Ohio.....	16 (4)
Massachusetts.....	59 (28)	Indiana.....	6
Connecticut.....	5	Nebraska.....	1
Maine.....	5 (1)	Illinois.....	15 (1)
Rhode Island.....	1	Minnesota.....	4
	— —	Missouri.....	8
Total New England..	72 (29)	North Dakota.....	8
New York.....	22 (4)	Kansas.....	1
New Jersey.....	8 (3)	Michigan.....	(2)
Pennsylvania.....	10 (1)		— —
	— —		53 (8)
	112 (37)		
SOUTH ATLANTIC DIVISION		SOUTH CENTRAL DIVISION	
North Carolina.....	2	Louisiana.....	5
Maryland.....	1 (1)	Arkansas.....	2
District of Columbia...	3	Kentucky.....	1
Virginia.....	1	Tennessee.....	1
Georgia.....	2	Texas.....	2
West Virginia.....	2 (1)	Oklahoma.....	4
	— —		— —
	11 (2)		15
WESTERN DIVISION		Hawaii.....	1
Arizona.....	(1)	Philippine Islands.....	1
Utah.....	1		
Colorado.....	1	FOREIGN	
Oregon.....	2	Australia.....	1
California.....	8 (1)	Canada.....	1
Washington.....	2 (1)	China.....	1
	— —	Egypt.....	1
	14 (3)	England.....	(1)
		Gold Coast (W. Africa)	(1)
		Japan.....	2
		Palestine.....	1
			— —
			7 (2)
Total.....			214 (52)

(The numbers in parentheses indicate Service Unclassified.)

TABLE SHOWING GEOGRAPHICAL DISTRIBUTION OF CANDIDATES, ADMITTED AND REFUSED, OLD AND NEW PLANS ACCORDING TO SCHOOLS, IN 1916, 1917, 1918, AND 1919

	Public			Private and Endowed			Total			1916	1917	1918	1919
	1916	1917	1918	1916	1917	1918	1916	1917	1918				
New England.....	298	203	204	231	375	322	293	286	673	525	497	517	74.3
North Atlantic, including New England.....	355	255	247	284	425	365	334	348	780	620	581	632	86.1
South Atlantic.....	6	3	7	9	9	13	6	6	15	16	13	15	1.6
Western.....	11	14	4	7	3	1	4	4	14	15	8	11	1.5
North Central.....	57	48	39	40	22	23	18	16	79	71	57	56	8.7
South Central.....	5	3	5	2	5	2	0	1	10	5	5	3	1.1
Foreign.....	0	0	0	2	2	1	2	1	2	1	2	3	.2
Insular Territories and Dependencies.....	2	1	2	1	3	2	2	1	5	3	4	2	.5
	436	324	304	345	469	407	366	377	905	731	670	722	

PERCENTAGES OF CANDIDATES FROM VARIOUS KINDS OF SCHOOLS IN 1916, 1917, 1918, AND 1919

	Old Plan			New Plan			Total			1916	1917	1918	1919
	1916	1917	1918	1916	1917	1918	1916	1917	1918				
Public Schools.....	28.8	25.9	27.0	27.7	69.4	54.7	58.6	64.0	43.1	40.2	41.7	43.5	
Private or Endowed Schools.....	71.1	74.0	72.9	72.2	30.5	45.2	41.3	35.9	56.8	59.7	58.2	56.5	
	REFUSED												
Public Schools.....	46.4	38.3	41.3	40.6	82.8	77.7	77.1	75.9	63.9	59.0	58.6	59.5	
Private or Endowed Schools.....	53.5	61.6	58.6	59.3	17.1	22.2	22.8	24.0	36.0	40.9	41.3	40.5	
	ADMITTED AND REFUSED												
Public Schools.....	32.4	28.5	30.0	30.7	73.4	59.7	62.7	67.7	48.1	44.3	45.3	47.8	
Private or Endowed Schools.....	67.5	71.4	69.9	69.2	26.5	40.2	37.2	32.2	51.8	55.6	54.6	52.2	

DEPARTMENT OF HYGIENE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of presenting the report of the Department of Hygiene for the academic year 1918–19.

During most of the academic year the Professor of Hygiene was absent on war service. However, the generous coöperation of various individuals, mainly physicians who remained at home, some of whom were regularly connected with the Department of Hygiene, and some of whom were not, enabled a good deal of the routine work of the department to be carried out.

At the beginning of the year, when the epidemic of influenza was raging, an attempt was made, under the charge of Dr. George R. Minot, to prevent its entrance into Harvard College. The entire college population was examined, and quarantine and isolation measures were adopted when necessary. While these precautions did not eradicate influenza from the University, nevertheless the University suffered much less than most communities. The report of Dr. Bailey which is appended will indicate the extremely satisfactory way in which the actual sick cases of influenza were handled in the University.

Since the return of the Professor of Hygiene from war service, a careful survey has been made of the activities of the Department of Hygiene. Stimulated by a request from the Board of Overseers to investigate the possibility of the adoption of physical training in Harvard College, a plan was worked out for required physical training of Freshmen. This plan has been adopted and goes into effect at the beginning of the academic year 1919–20. The plan calls for a minimum requirement of physical exercise on the part of each Freshman of one hour three times a week. It is the design to encourage out-of-door, recreative games, and more particularly those games which can be played after graduation from college. It is not aimed to adopt merely a program of gymnasium work which is the simplest solution from an administrative point of view. It will be possible for those who desire gymnasium work to satisfy the requirements in that way, but, in general, every encouragement will be given to foster out-of-door recreations.

The plan also contemplates a series of required lectures for the Freshman class on some of the fundamental principles of health. By these means, it is hoped to enable the student more clearly to visualize the real reason of his physical recreation, namely, that it is at least as much for his physical benefit as it is for pure enjoyment.

The Department of Hygiene has received for the year 1919–20 an appropriation from the United States Interdepartmental Social Hygiene Board. Under the terms of the appropriation the University is under obligation to complete the organization of "a department of hygiene, the curriculum of which shall include courses and conferences in informational hygiene, and courses, conferences and training in the applications of hygiene, emphasizing with appropriate and due proportion and with proper tact and persistency the serious importance of venereal

diseases, their causes, carriers, and prevention, and emphasizing at the same time the other important facts and applications of general hygiene, individual hygiene, group hygiene, and intergroup hygiene." In consequence of this appropriation considerable extension of the work of the Department of Hygiene is made possible for the year 1919-20.

ROGER I. LEE, *Professor of Hygiene.*

REPORT OF THE MEDICAL ADVISER

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to present the report of illness among Harvard students for the academic year 1918–19.

Conditions related to the war and the epidemic of influenza have made a most unusual year for this department. The formation of the Harvard S.A.T.C., Officers' Material School, the Naval Unit, and the Marine Corps plus the epidemic, complicated things so that it was found impossible to keep the data necessary for "Table II. — Illness Report as Related to the Different Schools," and for computing the total number of visits and consultations, which in previous annual reports have appeared at the bottom of Table I.

The influenza was the worst epidemic which has visited Harvard during the twenty-six years which this department has been maintained. It spread with such rapidity that it nearly swamped us before sufficient force could be organized to handle it. Many of the Cambridge physicians were away in the service and those who remained were overworked by their own practice. Yet four Cambridge physicians responded to the Medical Adviser's call for help by assisting him in the office at 21 Thayer Hall, at the Stillman Infirmary and in other ways. The Dean and certain professors of the Medical School gave liberally of their time to advise and help during this crisis. The Medical School also furnished one physician of experience in preventive medicine and a dozen students to assist the Medical Adviser. Men in the S.A.T.C. volunteered for general work about the hospital.

Nurses were sought at every available source, but it was impossible to obtain as many as were needed, so that for many weeks the nurses were overworked, and too much praise cannot be said for the loyalty shown by the entire Infirmary staff, especially if it is appreciated that everyone knew the risk involved.

Harvard University is indebted, and the Medical Adviser is deeply grateful to each physician, nurse, and volunteer for the help given to this department. If all the names were given, it would make an honor list of considerable length.

Two hundred and fifty-eight cases of influenza were treated at the Stillman Infirmary. At times both buildings were filled to more than the normal capacity, making it necessary to provide extra beds. Of these two hundred and fifty-eight influenzas, sixty-one were complicated by broncho-pneumonia. Six of the sixty-one died. Their names and dates of death are as follows:—

C. F. Mateyka, 2C., October 6, 1918,
T. M. Arms, 2C., October 12, 1918,
W. MacM. Maslen, 3C., November 25, 1918,
H. A. Janzlik, 3C., November 30, 1918,
Allen Hollis, 2C., November 30, 1918,
G. M. Green, Instructor, January 24, 1919.

It will be seen that the mortality among the influenzas complicated with broncho-pneumonia was ten per cent. The mortality among similar cases from all other hospital reports which I have seen has ranged from thirty to fifty per cent and upwards, as high as seventy per cent in several instances. Perhaps the chief reason which kept our mortality comparatively low lies in the Harvard system of medical supervision which places the sick student very early under professional care. With few exceptions these two hundred and fifty-eight influenzas were put to bed before they felt much ill, often before they were willing to go until the importance of early care was explained to them.

Beside the six deaths reported above, Mr. G. L. Larrabee, another influenza-pneumonia, developed tuberculosis, was transferred to a tuberculosis sanitarium on December 14, 1918, and died there of tuberculosis last April.

Notwithstanding the influenza epidemic, the percentage of total illness in the student body was slightly less than in any previous year for the past decade. By consulting Table III it may be seen that other contagious diseases are either absent or noticeably small in number. Another interesting item is the remarkably small number of cases of appendicitis. Five cases only were reported, three of which were operated on at the Infirmary. The report for 1917-18 shows sixteen and the average for the preceding seven years was 38.6.

The Infirmary staff and patients desire to acknowledge with appreciation gifts to the Infirmary, chiefly books and periodicals, from the following sources: — Dr. B. A. G. Fuller, Messrs. Robert W. Chambers, Joseph Davis, John Crocker, Mr. and Mrs. T. J. Arms, *The Harvard Crimson*, the *Graduate Magazine*, and eleven books from Mr. Chase, a volunteer worker from the S.A.T.C. at the Stillman Infirmary, whose initials were not obtained.

MARSHALL H. BAILEY, *Medical Adviser.*

TABLE I. — ILLNESS REPORT, 1918-19

Diseases	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
Abscesses . . . . .	..	..	..	..	..	2	1	2	..	..	5
Appendicitis . . . . .	..	..	..	..	2	1	1	1	..	..	5
Bronchitis	1	4	5	2	5	6	5	7	4	1	40
Cerebro-spin ^l meningitis . . . . .	..	..	..	..	..	1	..	..	..	..	1
Chicken-pox . . . . .	..	1	..	..	..	..	..	..	..	..	1
Colds — unclassified	23	32	22	1	15	18	26	28	23	..	188
Coryza	11	3	4	3	5	4	7	5	6	..	48
Diarrhoea . . . . .	..	2	2	..	..	..	..	..	1	..	5
Ear, of the . . . . .	..	..	1	..	2	1	3	1	..	..	8
Eye, of the	3	3	1	1	5	9	10	16	10	..	58
General Debility . . . . .	..	1	..	..	1	1	3	..	5	1	12
Heart, of the . . . . .	..	4	3	..	2	1	3	2	..	..	15
Indigestion	1	1	3	1	1	4	6	8	4	3	32
Infections, localized . . . . .	..	2	2	..	..	1	2	2	5	1	15
Influenza	51	54	86	34	22	11	6	8	12	1	285
Insomnia . . . . .	..	..	..	1	..	..	..	..	..	..	1
Jaundice	1	3	..	..	3	2	1	2	5	..	17
Laryngitis . . . . .	..	..	..	..	1	..	1	5	1	..	8
Lumbago . . . . .	..	..	..	..	..	..	..	1	..	..	1
Malaria . . . . .	..	1	..	..	1	1	1	4	1	1	10
Measles . . . . .	..	..	..	..	1	..	..	..	1	..	2
Miscellaneous Med.	6	29	37	7	28	18	16	24	16	6	187
Miscellaneous Surg.	3	23	24	6	7	13	20	19	22	6	143
Mumps . . . . .	..	..	..	..	1	2	2	2	..	..	7
Nephritis . . . . .	..	..	..	..	..	..	..	..	1	..	1
Neuralgia . . . . .	..	..	..	..	..	..	..	1	..	..	1
Pharyngitis	1	8	3	..	5	3	4	16	2	..	42
Pleuritis . . . . .	..	..	..	..	1	1	2	..	..	..	4
Pneumonia	8	9	13	4	1	2	1	1	..	..	39
Rheumatism . . . . .	..	..	..	..	1	1	1	..	..	..	3
Scarlet Fever . . . . .	..	..	..	..	..	..	..	1	..	..	1
Skin, of the	1	3	5	1	2	2	3	5	3	1	26
Teeth, of the . . . . .	..	..	1	..	2	3	9	5	5	..	25
Tonsillitis	2	4	7	1	8	12	7	10	6	2	59
Tuberculosis . . . . .	..	1	..	..	..	..	..	2	..	..	3
No diagnosis	2	3	11	1	4	3	11	4	5	..	44
Total	114	191	230	63	126	123	152	187	138	23	1342

TABLE II. — ILLNESS REPORT AS RELATED TO THE DIFFERENT SCHOOLS

[This table is to be omitted this year.]

TABLE III
STILLMAN INFIRMARY

LIST OF CASES, 1918-19

Abscesses	3	Measles	2
Appendicitis	8	Miscellaneous Medical	21
Bronchitis	19	Miscellaneous Surgical	54
Chicken-pox	1	Mumps	6
Colds — unclassified	28	Nephritis	1
Coryza	15	Pharyngitis	9
Diarrhoea	1	Pleuritis	4
Ear, of the	1	Pneumonia, Lobar	1
General Debility	6	Rheumatism	1
Heart, of the	2	Scarlet Fever	1
Indigestion	6	Skin, of the	3
Infections — localized	17	Tonsillitis	31
Influenza	197	Tuberculosis	2
Influenza with Broncho-Pneumonia	61	No diagnosis	7
Jaundice	6		
Laryngitis	2	Total	511

Room patients	48
Ward patients	463
Total	511

Discharged — well	398
“ relieved	97
“ not relieved	2
Transferred to other hospitals	8
Died	6
Total	511

Total number of hospital days	4,663
Daily average	17.14

Total number of operations	13
Operations for appendicitis	8

REPORT OF THE APPOINTMENT OFFICE

FACULTY OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor of submitting a report prepared in the University Appointment Office, which is under the direction of the Faculty of Arts and Sciences.

L. B. R. BRIGGS, *Dean,*
Faculty of Arts and Sciences.

The University Appointment Office during 1918-19 received 1093 direct calls and 144 calls through agencies for Harvard men to fill educational positions. Of that number we have filled 203,¹ not quite one-sixth of the calls. We have shared these opportunities to place college men with university appointment offices all over the country. It is not, therefore, surprising if we cannot fill even a majority of the positions for which we are asked to recommend teachers. One direct cause, however, of our comparatively short list of men who are available for teaching either as beginners or for advancement is the well recognized disparity between the teacher's salary and the cost of living. The salaries received in war positions, both in and out of service, have led young men ambitious to recover from the outlay of expenses for a college education, or eager to establish a home, to turn from teaching to business, to scientific research in manufacturing houses, or to administrative educational work in business firms, or to departments of the Government requiring men with university training.

¹ This number includes two positions which have been reported too late to appear in the tables.

TABLE OF INSTITUTIONS

	Number of Calls Direct	Number of Calls through Agencies	Number of Posi- tions Filled	Number of Sala- ries Reported	Aggregate Salaries Reported
Universities or Colleges	570	59	104	87	\$151,350
Medical Schools	2	..	3	1	2,200
Theological Schools	1	..	..	..	....
Technical Schools	25	4	15	12	16,100
Normal Schools	16	..	2	2	7,025
Agricultural Schools	6	3	..	..	....
Public Schools	174	34	27	18	40,550
Private Schools	266	44	40	37	73,650
Playground	1	..	..	..	....
Mill Schools	1	..	1	1	2,000
Apprentice Schools	1	..	..	..	....
Social Service	9	..	5	4	8,100
Boy Scouts Organisation	2	..	1	1	2,800
Public Health Service	3	..	1	1	2,000
U. S. Army Hospital	1	..	..	..	....
U. S. Housing Corporation	1	..	1	1	1,200
Federal Board of Vocat. Education ¹	1	..	1	..	....
American Red Cross	3	..	..	..	....
Y. M. C. A. Personnel Board	4	..	..	..	....
War Work Council	1	..	..	..	....
Publishing House	1	..	..	..	....
Personal Secretary	1	..	..	..	....
Museum	2	..	2	1	1,500
Library of Congress	1	..	..	..	....
Totals	1,093	144	203 ^{1,2}	166	\$308,475

¹ Of this number, 13 positions have been filled indirectly, 1 through an agency and 12 through letters written at the request of the candidate, and 6 positions are those to which men have returned after war service, directly or indirectly through the agency of the office.

² 199.

POSITIONS FILLED—TABLE OF SUBJECTS

	Universities or Colleges	Medical Schools	Technical Schools	Normal Schools	Public Schools	Private Schools	Mill School	Social Service	Boy Scouts Organisation	Public Health Service	U. S. Housing Corporation	Federal Board	Museum	Total
GROUP I														
ANCIENT LANGUAGES:														
Latin	1	.	.	.	1	.	.	.	.	.	.	.	.	2
with French .....	.	.	.	.	1	.	.	.	.	.	.	.	.	1
Latin and Greek .....	.	.	.	.	4	.	.	.	.	.	.	.	.	4 7
MODERN LANGUAGES:														
English	34	4	.	2	3	.	1	.	.	.	.	.	.	44
German	1	1	.	.	.	.	.	.	.	.	.	.	.	2
with French .....	.	.	.	1	.	.	.	.	.	.	.	.	.	1
French	1	1	.	.	2	.	.	.	.	.	.	.	.	5
with German	1	.	.	.	.	.	.	.	.	.	.	.	.	1
Spanish	5	1	.	1	.	.	.	.	.	.	.	.	.	7
Romance Languages	13	.	.	1	3	.	.	.	.	.	.	.	.	17
with Athletics .....	.	.	.	.	1	.	.	.	.	.	.	.	.	1 78
FINE ARTS	1	.	.	.	.	.	.	.	.	.	.	1	.	2 2
MUSIC .....	.	.	.	.	1	.	.	.	.	.	.	1	.	2
with French .....	.	.	.	.	1	.	.	.	.	.	.	.	.	1 3
GROUP II														
PHYSICS	1	.	.	.	1	.	.	.	.	.	.	.	.	2 2
CHEMISTRY	5	.	.	.	1	.	.	.	.	.	.	.	.	6
Bio-Chemistry and Physiology	1	.	.	.	.	.	.	.	.	.	.	.	.	1 7
BIOLOGY	3	.	.	.	.	.	.	.	.	.	.	.	.	3
Botany	1	.	.	.	1	.	.	.	.	.	.	.	.	1
Zoology	2	2	.	.	.	.	.	.	.	.	.	.	.	4
Physiology	1	.	.	.	.	.	.	.	.	.	.	.	.	1 9
GROUP III														
HISTORY, GOVERNMENT, AND ECONOMICS:														
History	4	.	.	1	3	.	.	.	.	.	.	.	.	8
with English .....	.	4	.	.	1	.	.	.	.	.	.	.	.	5
Government	8	.	.	.	.	.	1	.	.	.	.	.	.	9
Economics	6	.	.	.	.	.	.	.	.	.	.	.	.	6
with Commercial Subjects	2	.	.	.	.	.	.	.	.	.	.	.	.	2 30
EDUCATION														
Educational Psychology .....	.	.	1	.	.	.	.	.	.	.	.	.	.	1
Superintendent .....	.	.	.	4	.	.	.	.	.	.	.	.	.	4
Principal .....	.	.	.	4	2	1	.	.	.	.	.	.	.	7
Assistant Principal .....	.	.	.	.	2	.	.	.	.	.	.	.	.	2
Secretary to Headmaster .....	.	.	.	.	1	.	.	.	.	.	.	.	.	1
Director .....	.	.	1	.	1	.	1	.	.	.	.	.	.	3
Case Worker .....	.	.	.	.	.	.	1	.	.	.	.	.	.	1
Physical Education	1	.	.	1	.	.	.	.	.	.	.	.	.	2
Vocational Guidance .....	.	.	.	1	.	.	.	.	.	.	1	.	.	2
Field Scout Commission .....	.	.	.	.	.	.	.	1	.	.	.	.	.	1
General Elementary Subjects .....	.	.	.	1	5	.	.	.	.	.	.	.	.	6 32
Carried forward .....	.	.	.	.	.	.	.	.	.	.	.	.	.	170

POSITIONS FILLED — TABLE OF SUBJECTS

	Universities or Colleges	Medical Schools	Technical Schools	Normal Schools	Public Schools	Private Schools	Mill School	Social Service	Boy Scouts Organization	Public Health Service	U. S. Housing Corporation	Federal Board	Museum	Totals
Brought forward . . . . .	..	.	.	.	.	.	.	.	..	..	..	.	.	170
GROUP IV														
PHILOSOPHY AND PSYCHOLOGY:														
Philosophy	4	.	.	.	.	.	.	.	..	..	..	.	.	4
with Psychology	2	.	.	.	.	.	.	.	..	..	..	.	.	2
Psychology	2	.	.	.	.	.	.	.	..	..	..	.	.	2
Social Ethics . . . . .	..	.	.	.	.	.	.	1	..	1	1	.	.	3 11
MATHEMATICS	2	.	3	.	7	2	.	.	..	..	..	.	.	14
with Physics	1	.	.	.	.	.	.	.	..	..	..	.	.	1
" Science and English . . . . .	..	.	.	.	.	1	.	.	..	..	..	.	.	1
" Athletics . . . . .	..	.	.	.	.	1	.	.	..	..	..	.	.	1
Mechanics . . . . .	..	.	1	.	.	.	.	.	..	..	..	.	.	1
General Science . . . . .	..	.	.	.	3	1	.	.	..	..	..	.	.	4 22
Total . . . . .	..	.	.	.	.	.	.	.	..	..	..	.	.	203 ¹

¹ 199.

POSITIONS FILLED—GEOGRAPHICAL DISTRIBUTION

	Universities or Colleges	Medical Schools	Technical Schools	Normal Schools	Public Schools	Private Schools	Mill School	Social Service	Boy Scouts Organization	Public Health Service	U. S. Housing Corporation	Federal Board	Museum	Totals for States	Totals for Divisions
No. ATLANTIC DIVISION...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	123
Maine	3	..	..	..	1	..	..	..	..	..	..	..	..	4	..
New Hampshire	5	..	..	..	2	..	..	..	..	..	..	..	..	7	..
Vermont	3	..	..	..	1	..	..	..	..	..	..	..	..	4	..
Massachusetts	19	1	10	..	15	14	..	4	1	..	..	1	..	65	..
Rhode Island	3	..	..	..	1	1	..	..	..	..	..	..	..	5	..
Connecticut	5	..	..	..	..	4	..	1	..	..	..	..	..	10	..
New York	7	..	1	..	2	10	..	..	..	..	..	..	1	21	..
New Jersey	2	..	..	..	..	3	..	..	..	..	..	..	..	5	..
Pennsylvania	4	..	3	..	..	..	..	..	..	..	..	..	..	7	..
So. ATLANTIC DIVISION...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14
Maryland	1	..	..	..	..	2	..	..	..	..	..	..	..	3	..
District of Columbia .....	..	..	..	..	..	..	..	..	1	1	..	..	..	2	..
Virginia	2	..	..	1	1	..	..	..	..	..	..	..	..	4	..
North Carolina	3	..	..	..	..	1	..	..	..	..	..	..	..	4	..
South Carolina .....	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..
So. CENTRAL DIVISION...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Tennessee	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Mississippi	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
No. CENTRAL DIVISION...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	45
Michigan	1	..	..	..	..	1	..	..	..	..	..	..	..	2	..
Ohio	6	..	1	..	2	..	..	..	..	..	..	1	..	10	..
Indiana	2	..	..	..	..	..	..	..	..	..	..	..	..	2	..
Illinois	5	2	..	..	..	..	..	..	..	..	..	..	..	7	..
Wisconsin	9	..	..	..	..	..	..	..	..	..	..	..	..	9	..
Minnesota	5	..	..	..	..	..	..	..	..	..	..	..	..	5	..
Iowa	2	..	..	..	..	..	..	..	..	..	..	..	..	2	..
Missouri	2	..	..	1	1	2	..	..	..	..	..	..	..	6	..
Nebraska	2	..	..	..	..	..	..	..	..	..	..	..	..	2	..
WESTERN DIVISION...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10
Colorado	1	..	..	..	..	2	..	..	..	..	..	..	..	3	..
Idaho	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Washington	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
California	5	..	..	..	..	..	..	..	..	..	..	..	..	5	..
PHILIPPINE ISLANDS...	..	..	..	..	1	..	..	..	..	..	..	..	..	1	1
CANADA	3	..	..	..	..	..	..	..	..	..	..	..	..	3	3
Total	101	2	15	2	27	39	1	4	1	1	1	1	2	197	203

The fact that through the recommendation of Harvard men we could fill only about one-sixth of the positions brought to the attention of the Appointment Office leads us to wish that we had at command machinery to coöperate in placement with other university appointment offices. The results of a questionnaire which we sent out in 1918, and of a conference held in New York on October 13, 1919, of appointment secretaries representing colleges for men and women, have brought more directly to our attention the need of coöperation in university appointment service for placing men and women in educational work and in business. As the result of resolutions sent from the conference in New York to a meeting of bureaus of occupations held in Chicago on October 25, 1919, a further conference is to be called within a month or two to consider plans for a national chain of professional offices. Such an organization, based on the continued service of individual university appointment offices, should at once enlarge the opportunities for placement, and should give to appointment service throughout the country the actual results of larger coöperation and, growing out of that coöperation, the added incentive of goodwill.

HARVARD APPOINTMENT OFFICE.

REPORT OF THE APPOINTMENT OFFICE

THE HARVARD ALUMNI ASSOCIATION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I herewith submit the report of the Appointment Office of the Harvard Alumni Association for the year 1918-1919.

The function of the Alumni Appointment Office is to place the alumni of the University in permanent business and technical positions, and to help them generally in their search for positions. It coöperates with the Faculty, and with the Harvard Clubs throughout the country; and a report of their work, so far as there has been anything definite rendered, has been included.

A special effort has been made during the past year to help the men who have been in war service. A number of men have been placed; and many others have found the office of assistance in acting as a clearing house where they could talk over the general outlook in business and find out something about the different business opportunities.

From the latter part of November until the first of October, 665 men who had been in service have registered. Of this number, 130 were placed directly by the Alumni Office; 28 were placed by the Faculty and the Clubs; 63 returned to their old jobs; 15 returned to the University for further study; and 129 found their own positions. The remainder are actively available, or have failed to notify the office that they are placed. The individual salaries have been larger during the past year, comparatively few beginners receiving less than \$780. The lowest salary, however, is \$600, and the highest is \$5000; but many more men have been placed at salaries from \$2500 to \$3500 than in any previous year.

The number of new men coming to the office is continually increasing, and a larger percentage of the service men are being placed each day. The office is becoming better known among employers, and we are endeavoring to broaden work along this line.

There have been 500 applications for men, and 157 permanent positions filled. There are about 1400 applicants registered, divided into three classes — available because out of a position, actively available because dissatisfied with the present position, and those satisfied but available for advancement along special lines, or an exceptional opportunity.

ALUMNI ASSOCIATION (PERMANENT POSITIONS)

	Number of Positions Filled	Number of Salaries Reported	Amount of Salaries Reported
Accounting (Public)	8	8	\$13,420
Advertising	5	5	12,700
Architecture	2	2	3,640
Banking	6	6	7,600
Brokerage (Bonds, etc.)	13	13	13,948 ¹
Chemistry (Consulting and Research)	2	2	4,000
Cotton and Wool	6	6	5,540
Economic Work (Research)	3	3	5,300
Foreign Trade	8	8	12,760
Insurance	4	4	3,496
Journalism (Editorial)	2	2	4,940
Law and Legal Executive	3	3	9,000
Manufacturing	54	54	80,650
Accounting	4		
Chemistry	2		
Clerical and Cost Work	7		
Engineering	8		
Executive	6		
General and Operating	14		
Publicity	2		
Purchasing and Shipping	2		
Selling	7		
Stenography	1		
Welfare	1		
Mercantile	20	20	26,918 ¹
Credit	1		
Department Stores	3		
Executive	1		
Export	1		
Office	3		
Operating	7		
Sales	4		
Public Service (Transportation and Miscellaneous)	6	6	11,880
Publishing (Sales and Business)	4	4	3,880
Real Estate	3	3	1,560 ¹
Secretaryships (Civic and Private)	4	4	9,900
Social Service	4	4	9,740
Totals	157	157	\$240,872

¹ Indicates salaries partly on commission.

ALUMNI ASSOCIATION (TEMPORARY POSITIONS)

Clerical Work	2
Drafting	1
Publicity	1
Secretarial	3
Social Service	3
Total	10

FACULTY (PERMANENT BUSINESS POSITIONS)

	Number of Positions Filled	Number of Salaries Reported	Amount of Salaries Reported
BUSINESS ADMINISTRATION, GRADUATE SCHOOL OF	10	9	\$16,960
(Accounting..... 2)			
Department store, sta- tistical..... 1)			
Foreign trade..... 1)			
Manufacturing:			
Efficiency work..... 2			
Production..... 2			
Selling..... 1			
Publishing, advertising.. 1)			
ENGINEERING SCHOOL (Civil and Miscel- laneous)	3	3	5,680
GOVERNMENT DIVISION (Civic)	2	2	4,700
LANDSCAPE ARCHITECTURE, SCHOOL OF SOCIAL ETHICS DEPARTMENT (Housing-Sta- tistical)	8	..	..
	5	5	13,900
Totals	28	19	\$41,240

HARVARD CLUB OF NEW YORK CITY

The work of the Employment Committee has been conducted during the past year primarily as a war measure to help the men returning from service. There have been about three hundred (300) applicants. Seventy-nine (79) men have been placed, at salaries from \$6,000 down; and many other men helped with advice. No complete statistics have been recorded.

HARVARD ENGINEERING SOCIETY OF NEW YORK

Four (4) Engineers have been placed, with total salaries of \$11,160. In addition six engineers from other colleges have been placed.

HARVARD CLUB OF CHICAGO

Three (3) men have been placed directly (2 in packing, 1 in manufacturing), with total salaries of \$4,860. A number of other men were given letters of introduction and suggestions, but failed to report results.

HARVARD CLUB OF CLEVELAND

Three (3) men have been placed in the investment banking business, with total salaries of \$7,200.

GEOGRAPHICAL DISTRIBUTION (PERMANENT POSITIONS)

	Alumni Association	Faculty	Totals	Harvard Clubs
NORTH ATLANTIC DIVISION: —				
Maine.....	2	..	2	Statistics
Massachusetts.....	113	12	125	not
Rhode Island.....	5	..	5	Recorded
Connecticut.....	1	..	1	
New York.....	13	2	15	
Pennsylvania.....	1	1	2	
SOUTH ATLANTIC DIVISION: —				
Maryland.....	..	1	1	
District of Columbia.....	3	8	11	
CENTRAL DIVISION: —				
Ohio.....	6	1	7	
Illinois.....	3	..	3	
Minnesota.....	4	..	4	
Michigan.....	1	2	3	
Missouri.....	..	1	1	
Wisconsin.....	2	..	2	
WESTERN DIVISION: —				
Colorado.....	1	..	1	
SOUTH AMERICA.....				
	1	..	1	
CHINA.....				
	1	..	1	
	<hr/>	<hr/>	<hr/>	
	157	28	185	

A comparison for the past ten years of the number of *permanent* positions filled and the amounts earned is as follows:—

	Alumni Associa- tion	Fac- ulty	Harvard Club of New York City	Other Harvard Clubs	Total Posi- tions Filled	Number Salaries Reported	Amount Salaries Reported	Average ¹
1909-10	52	22	..	..	74	70	\$68,388	\$977
1910-11	66	46	..	..	112	85	76,992	906
1911-12	63	32	..	..	95	73	65,998	904
1912-13	99	40	..	..	139	129	125,793	975
1913-14	81	34	29	..	144	142	149,944	1,055
1914-15	78	60	21	..	159	130	125,094	962
1915-16	120	58	43	..	221	195	197,516	1,012
1916-17	85	34	11	4	134	122	156,921	1,286
1917-18	69	22	7	12	110	101	156,830	1,552
1918-19	157	28	79	10	274	176	282,112	1,603

CHARLES JACKSON, *General Secretary*.

¹ Salaries of Alumni Office and Faculty only, Clubs not included.

REPORT OF THE SECRETARY FOR STUDENT EMPLOYMENT

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The following report, submitted by the Secretary of the Students' Employment Office, describes the work of that office for the year 1918-19.

The total earnings for the year were \$50,989.30, a decrease of \$19,041.24 over the year 1917-18.

	1917-18	1918-19
Men registered for term-time work	502	464
Men who secured term-time work	350	220
Men registered for summer work	302	427
Men who secured summer work	159	136

The division of registration among the departments of the University is as follows: —

	Term-time	Summer
College	292	277
Graduate	50	62
Law	34	18
Unclassified	67	39
Medical	12	17
Business	6	6
Divinity	2	2
Dental	1	6
Total	464	427

Total number of men registered at the office, 1918-19, 891 (81 duplicates).

TERM-TIME EMPLOYMENT. September 23, 1918 — June 20, 1919

Positions	No. of Positions	Amount Earned	No. of Men Employed	Average Amount Earned Per Man
Accountant	1	\$5.00	1	\$5.00
Agent	3	274.80	17	\$16.16
Attendant	2	1.50	2	.75
Boys' Club	7	437.41	7	62.49
Caretaker	3	239.00	4	59.75
Chauffeur	6	442.09	7	63.15
Choreman	45	524.41	28	18.73
Clerk	68	1,382.68	68	20.33
Coach	2	70.00	2	35.00
Companion	6	337.02	6	56.12
Computer	1	108.65	1	108.65
Corrector	1	67.50	1	67.50
Draftsman	4	122.25	5	24.45
Errands	5	2.26	5	.45
Farmer	1	135.00	1	135.00
Gardener	18	101.90	12	8.49
Guide	12	54.40	12	4.53
Hat Checker	1	66.00	1	66.00
Hotel Clerk	1	27.00	1	27.00
Librarian	3	421.91	8	52.74
Monitor	2	291.40	40	7.28
Musician	10	1,005.00	11	91.36
Note-taker	1	50.00	1	50.00
Proctor	3	1,559.07	77	20.24
Proof Reader	1	2.00	1	2.00
Reader	4	47.00	3	15.67
Research	2	111.00	1	111.00
Room for Services	2	171.00	2	85.50
Salesman	10	703.36	23	30.58
Settlement Work	2	18.00	2	9.00
Stenographer	12	516.30	7	73.75
Switchboard Operator	2	110.66	5	22.13
Ticket Taker	3	36.00	7	5.14
Translator	7	242.85	8	30.35
Tutoring	32	5,207.30	28	185.97
Tutor Companion	6	5,780.00	6	963.33
Typewriter	14	132.16	14	9.44
Usher	2	98.00	22	4.49
Waiter	10	1,257.00	22	56.88
Total	315	\$22,158.88		

Amount earned during term-time of 1918, \$24,682.32.

SUMMER EMPLOYMENT

June 20, 1919 — September 22, 1919

Positions	No. of Positions	Amount Earned	No. of Men Employed	Average Amount Earned Per Man
Agent	3	\$2,800.33	8	\$350.04
Boatman	1	190.00	1	190.00
Boys' Club Worker	2	115.00	2	57.50
Business	1	180.00	1	180.00
Camp Counsellor	10	2,687.14	16	167.94
Canvasser	1	14.00	2	7.00*
Chauffeur	1	121.00	1	121.00
Choreman	11	1,032.20	12	86.01
Clerk	10	584.44	13	44.88
Companion	3	1,010.00	3	336.66
Computer	2	57.45	2	28.73
Conductor	2	490.00	2	245.00
Draftsman	1	29.88	1	29.88
Engineer	1	250.00	1	250.00
Farmer and Gardener	2	425.00	2	212.50
Guide	133	635.30	4	158.82
Hotel Employee	3	647.50	3	215.83
Janitor	1	140.00	1	140.00
Librarian	1	50.00	1	50.00
Monitor	18	80.25	18	4.26
Newspaper	1	74.00	3	24.66
Organist	1	9.00	1	9.00
Photographer's Assistant	1	28.00	1	28.00
Reader	1	5.00	1	5.00
Secretary	2	387.50	2	193.75
Switchboard Operator	2	198.05	3	66.01
Translator	3	54.25	3	18.08
Tutor	24	3,418.38	21	162.78*
Tutor Companion	30	12,722.00	30	409.07*
Typewriter	7	334.75	5	66.95
Waiter	1	60.00	2	30.00
Total	280	\$28,830.42		

Amount earned during summer of 1918, \$45,348.42.†

MORRIS GRAY, JR.,
Secretary for Student Employment.

* One not reported.

† This decrease is due largely to the fact that so many of the men, and particularly so many of the best men who ordinarily earn substantial sums, have been in the Service. Moreover, in the summer of 1918 over one hundred men worked in the shipyards, and earned a very considerable sum — a total of \$26,145.00. Most of these men undertook this work more from patriotic motives than for the sake of the money.

DEGREES CONFERRED, 1915-19

	1915	1916	1917	1918	1919
Bachelors of Arts	456	443	434	246	176
Bachelors of Arts out of course	47	50	49	26	56
Bachelors of Arts for Honorable Service in the War . . . . .	..	..	..	..	283
Bachelors of Science	60	52	81	22	23
Bachelors of Science out of course	9	9	10	8	10
Bachelors of Science for Honorable Service in the War . . . . .	..	..	..	..	38
Bachelors of Science in Civil Engineering . . . . .	..	10	16	33	28
Bachelors of Science in Electrical Engineering . . . . .	..	19	22	38	25
Bachelors of Science in Mechanical Engineering . . . . .	..	11	17	47	40
Bachelors of Science in Sanitary Engineering . . . . .	..	4	0	3	5
Bachelors of Science in Mining and Metallurgy . . . . .	..	1	8	6	4
Associate in Arts	2	0	5	1	0
Bachelors of Divinity	5	4	5	0	0
Masters of Divinity	3	2	7	5	3
Doctors of Theology	3	2	0	2	3
Bachelors of Laws	144	168	188	64	38
Bachelors of Laws out of course	22	25	19	15	11
Doctors of Law	2	6	2	3	2
Doctors of Law out of course	0	1	0	2	0
Doctors of Public Health	2	2	1	2	1
Doctors of Medicine	87	74	67	106	95
Doctors of Medicine out of course	0	0	0	0	3
Doctors of Dental Medicine	58	60	55	71	60
Doctors of Dental Medicine out of course	0	0	0	0	18
Masters of Arts	147	154	148	76	30
Master of Arts out of course	0	1	0	0	0
Doctors of Philosophy	58	52	67	45	24
Doctors of Science	8	2	2	4	1
Doctors of Engineering . . . . .	..	1	1	0	0
Metallurgical Engineers	0	2	1	0	0
Mining Engineers	0	3	0	0	0
Masters in Civil Engineering	5	1	0	0	0
Masters in Mechanical Engineering	2	0	0	0	0
Masters in Electrical Engineering	10	0	0	0	0
Masters in Architecture	8	10	6	2	5
Masters in Landscape Architecture	9	1	3	2	0
Masters in Forestry	0	0	0	1	0
Masters of Science in Botany	2	1	2	0	0
Master of Science in Geology	1	0	0	0	0
Masters of Science in Zoology	1	2	1	1	0
Masters of Science in Applied Biology . . . . .	..	2	0	1	0
Masters of Science in Civil Engineering	1	4	4	1	0
Masters of Science in Electrical Engineering	10	4	6	3	0
Masters of Science in Mechanical Engineering	4	4	1	2	0
Masters of Science in Sanitary Engineering . . . . .	..	1	2	0	0
Masters of Science in Forestry	1	1	0	0	1
Masters of Science in Mining and Metallurgy	1	0	1	1	0
Masters in Business Administration	27	37	50	26	4
Totals	1195	1226	1281	865	982

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TREASURER'S STATEMENT FOR 1918-19

TO THE BOARD OF OVERSEERS OF HARVARD COLLEGE: —

The Treasurer submits the annual statement of the financial affairs of the University, for the year ending June 30, 1919.

The net income of the general investments for this period was divided at the rate of 5.12 per cent among the Funds to which these investments belong.

From the income of all bonds bought at a premium for general investments \$7,351.83 was credited to the various accounts concerned, and for special investments \$297.15, as the fair yearly repayment to make good the premiums at the maturity of the bonds.

CHARLES F. ADAMS, *Treasurer*

Boston, November, 1919.

EXHIBIT A**BALANCE SHEET**

June 30, 1919

ASSETS**CASH IN BANKS:**

Treasurer—General,	\$146,724.83
Treasurer—Special—Schedule 1,	2,749.76
Bursar,	12,289.34

CASH IN OFFICE:

Bursar,	279.63	\$162,043.56
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ACCOUNTS RECEIVABLE:

Term Bills of January, 1919,	\$2,426.88	
Term Bills of April, 1919,	100.00	
Term Bills of May, 1919,	1,075.76	
Term Bills of June, 1919,	109,502.73	
Sundry accounts of Bursar's Office,	24,569.26	
Interest accrued,	5,972.91	143,647.04

INVENTORY—Stores,	8,867.96
------------------------------------	-----------------

INSURANCE UNEXPIRED,	38,055.44
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INVESTMENTS:

Securities—Special—Schedule 1, page 52, \$3,913,188.67	
Securities—General—Schedule 2, page 64, 24,947,442.95	
Land and Buildings—Sp.—Sched. 1, p., 52 2,155,545.30	
Land and Buildings—Gen'l—Sched. 3, p. 73, 4,869,497.63	35,885,674.45

GENERAL SUSPENSE:

Advances in Anticipation of Funds and Gifts	
or of income (net) Schedule 6, page 151,	356,200.59
	<u>\$36,594,489.04</u>

EXHIBIT A**BALANCE SHEET**

June 30, 1919

LIABILITIES**ACCOUNTS PAYABLE:**

Salaries,	\$177,708.59	
Deposits and Advance Payments,	<u>26,595.97</u>	\$204,304.56

FUNDS AND GIFTS, Schedule 4, page 76.

Restricted uses, Income only available, . . .	\$29,551,438.15	
" " Principal and Income available, . . .	1,856,405.39	
Unrestricted uses, Income only available, . .	3,188,653.84	
" " Principal and Income avail- able,	<u>1,087,480.71</u>	35,683,978.09

GAINS AND LOSSES ON GENERAL INVESTMENTS SOLD,	581,047.30
---	------------

INCOME ON GENERAL INVESTMENTS UNAPPORTIONED,	1,214.69
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RESERVES FOR DEPRECIATION AND MAINTENANCE,	123,944.40
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	<u><u>\$36,594,489.04</u></u>
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CONSOLIDATED STATEMENT OF INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

INCOME FROM FUNDS AND GIFTS

	Income from Funds and Gifts	General Income	Totals
From SPECIAL INVESTMENTS,			
Interest and Dividends— Schedule 1, . . .	\$153,740.78		
Rents of Land and Buildings,	\$184,602.24		
Less Operating Expenses,	97,032.60		
Net Income— Schedule 1,	87,569.64		
From GENERAL INVESTMENTS,			
Interest and Dividends on			
Securities— Schedule 2,	\$1,149,057.95		
Bank Balances,	5,600.73		
Advances to Departments and Miscel- laneous,	10,379.14	1,165,037.82	
Rents of Land and Buildings,	\$368,755.00		
Less Operating Expenses,	73,790.10		
Net Income— Schedule 3,	294,964.90		
Gifts for Immediate Use— Exhibit E,	280,961.34		
Miscellaneous income included in receipts for departmental and non-departmental activities,	75,404.42		
	<u>\$2,057,678.90</u>		<u>\$2,057,678.90</u>

GENERAL INCOME

Tuition Fees,	\$688,364.22		
Laboratory Fees,	21,855.67		
Other Fees,	31,891.01		
Gross Rents of College Dormitories,	139,527.99		
Miscellaneous Income,	1,382,350.41		
	<u>\$2,262,989.30</u>	2,262,989.30	
Total Income,			<u>\$4,320,668.20</u>
General Suspense, balance, Exhibit C, Part II, page 12,			14,846.83
	<u>\$2,057,678.90</u>	<u>\$2,262,989.30</u>	<u>\$4,320,668.20</u>

EXHIBIT B

CONSOLIDATED STATEMENT OF INCOME AND EXPENDITURE

For the year ended June 30, 1919

EXPENDITURE

	Income from Funds and Gifts	General Income	Totals
Administrative Purposes,	\$5,885.91	\$220,782.91	\$226,168.82
Departments of Instruction,	508,808.69	1,017,547.07	1,525,850.76
Other Activities,	585,874.23	1,256,289.95	1,842,164.18
Aids,	123,281.27	4,990.09	128,271.36
Repairs and equipment of College dormitories,		27,165.44	27,165.44
Caretaking and operating expenses of College dormitories,		84,880.98	84,880.98
Repairs and equipment of land and buildings for general purposes,		13,099.59	13,099.59
Caretaking and operating expenses of land and buildings for general purposes,		110,149.78	110,149.78
Total Expenditure,	\$1,222,845.10	\$2,784,905.81	\$3,957,750.91
Balance of unexpended restricted income transferred to Funds and Gifts, Exhibit C, Part II, page 12,	\$373,102.18		
Income unapportioned,	4,661.44	377,763.62	377,763.62
	\$1,600,608.72		
(Applied to purposes of general income),	457,070.18		
(Less amount transferred from restricted income),		457,070.18	
		\$2,277,885.63	
(Less balance, contra),		14,846.33	
			\$2,263,039.30
	\$2,057,678.90	\$2,262,989.30	\$4,320,668.20

INCOME AND EXPENDITURE

For the year ended

Income

	Restricted	General	Totals
University (Sch. 7),	\$121,202.48	\$980,431.02	\$1,101,633.50
College, including Graduate School of Arts and Sciences (Sch. 8), . .	645,570.03	829,932.46	1,475,502.49
Library (Sch. 9),	97,597.40	2,759.10	100,356.50
Summer Schools (Sch. 11),	567.14	35,708.14	36,275.28
Schools of Architecture and Landscape Architecture (Sch. 12),	64,789.66	4,037.43	68,827.09
Schools of Engineering and Mining (Sch. 13),	127,639.41	4,846.85	132,486.26
Graduate School of Business Adminis- tration (Sch. 14),	41,272.95	25,681.48	66,954.43
Divinity School (Sch. 15),	45,344.13	4,291.52	49,635.65
Law School (Sch. 16),	57,739.70	67,706.88	125,446.58
Medical School (Sch. 17),	325,165.03	226,892.40	552,057.43
Graduate School of Medicine (Sch. 18),	23,315.24	12,743.26	36,058.50
Dental School (Sch. 19),	6,574.22	45,265.73	51,839.95
Bussey Institution (Sch. 20),	43,073.65	1,372.50	44,446.15
Arnold Arboretum (Sch. 21),	63,622.32	.....	63,622.32
Botanic Garden (Sch. 22),	4,990.15	.....	4,990.15
Botanical Museum (Sch. 23),	1,588.38	.....	1,588.38
Gray Herbarium (Sch. 24),	18,766.67	.....	18,766.67
Observatory (Sch. 25),	53,497.25	.....	53,497.25
Blue Hill Meteorological Observatory (Sch. 26),	5,503.13	.....	5,503.13
Museum of Comp. Zoology (Sch. 27),	54,753.81	.....	54,753.81
Peabody Museum of American Archae- ology and Ethnology (Sch. 28), . .	14,892.21	.....	14,892.21
Semitic Museum (Sch. 29),	2,694.78	.....	2,694.78
Germanic Museum (Sch. 30),	7,925.43	.....	7,925.43
William Hayes Fogg Art Museum (Sch. 31),	15,076.17	.....	15,076.17
Appleton Chapel (Sch. 32),	10,436.62	.....	10,436.62
Phillips Brooks House (Sch. 33), . .	5,968.95	.....	5,968.95
Gymnasium (Sch. 34), . . . . .	.....	762.00	762.00
Stillman Infirmary (Sch. 35),	4,912.03	20,558.53	25,470.56
 <i>Less</i> Deficits included in the above expenditure of other departments and deducted to show the net expenditure,			
Hemenway Gymnasium,	\$8,886.06		
Stillman Infirmary,	11,881.08		
Total for Departments,	\$1,864,478.94	\$2,262,989.30	\$4,127,468.24
Non-departmental Funds and Gifts for Special Purposes (Sch. 36),	188,588.52	.....	188,588.52
	\$2,053,017.46	\$2,262,989.30	\$4,316,006.76
Income, on general investments, un- apportioned,	4,661.44	.....	4,661.44
Totals to Part II,	\$2,057,678.90	\$2,262,989.30	\$4,320,668.20

* A department may have both a balance and a deficiency in its analyzed figures,

EXHIBIT C, PART I

BY DEPARTMENTS

June 30, 1919

Expenditure	Balances*		Analysis of Balances			
	Balances of unexpended income reserved for expenditures to be made.	Deficiency of income.	Balances of income from restricted funds reserved for restricted purposes.	Excess of expenditure from restricted funds met from balances brought from previous years or from other sources.	Balances of general income allotted to the department, or balances of income from specific funds applied to repay former advances.	Excess of expenditure over income allotted to the department.
\$1,126,004.73	\$3,281.04	\$27,652.27	\$2,919.36	\$10,266.56	\$361.68	\$17,385.71
1,271,888.94	232,140.05	28,526.50	225,716.92	21,986.86	6,423.13	6,539.64
167,096.26	11,658.33	78,398.09	11,658.33	64,173.91	.....	14,224.18
37,148.79	.....	873.51	.....	482.86	.....	390.65
35,687.65	34,251.21	1,111.77	34,251.21	1,111.77	.....	.....
65,087.97	67,507.74	109.45	67,507.74	109.45	.....	.....
58,582.25	9,870.14	1,497.96	7,836.29	656.00	2,033.85	841.96
39,713.54	10,020.18	98.07	5,010.46	98.07	5,009.72	.....
126,165.45	8,927.09	9,645.96	8,927.09	233.40	.....	9,412.56
459,039.19	106,935.37	13,917.13	72,439.00	5,653.94	34,496.37	8,263.19
13,637.00	22,421.50	.....	17,230.90	.....	5,190.60	.....
69,736.24	304.28	18,200.57	304.28	531.17	.....	17,669.40
42,026.22	2,419.93	.....	1,907.47	.....	512.46	.....
55,880.07	12,032.59	4,290.34	12,032.59	4,290.34	.....	.....
9,070.44	.....	4,080.29	.....	.....	.....	4,080.29
1,750.64	9.17	171.43	.....	171.43	9.17	.....
17,657.29	1,109.38	.....	.....	.....	1,109.38	.....
55,129.05	5,587.65	7,219.45	5,587.65	7,145.68	.....	73.77
5,584.64	.....	81.51	.....	81.51	.....	.....
43,377.81	11,376.00	.....	6,331.87	.....	5,044.13	.....
12,492.93	3,021.84	622.56	1,832.55	622.56	1,189.29	.....
2,378.40	642.11	325.73	642.11	325.73	.....	.....
768.68	7,156.75	.....	4,960.51	.....	2,196.24	.....
11,017.21	4,480.98	422.02	4,480.98	422.02	.....	.....
10,825.16	.....	388.54	.....	388.54	.....	.....
5,063.83	947.03	41.91	947.03	41.91	.....	.....
9,648.06	.....	.....	.....	.....	.....	.....
36,313.27	538.37	.....	538.37	.....	.....	.....
\$3,788,771.71						
20,267.14						
\$3,768,504.57	\$556,638.73	\$197,675.06	\$493,062.71	\$118,793.71	\$63,576.02	\$78,881.35
189,246.34	28,328.36	29,036.18	27,747.39	28,914.21	580.97	121.97
\$3,957,750.91	\$584,967.09	\$226,711.24	\$520,810.10	\$147,707.92	\$64,156.99	\$79,003.32
.....	4,661.44	.....	4,661.44	.....	.....	.....
\$3,957,750.91	\$589,628.53	\$226,711.24	\$525,471.54	\$147,707.92	\$64,156.99	\$79,003.32

for some specific restricted funds may have balances and some may have deficiencies.

EXHIBIT C, PART II**SUMMARY OF ANALYZED INCOME AND
EXPENDITURE****NET ACCUMULATION OF INCOME**

Income,	\$4,820,668.20	
Expenditure,	3,957,750.91	
Net accumulation,		<u>\$862,917.29</u>

SUMMARY OF BALANCES AND DEFICIENCIES

Departments and activities with balances of unex- pended income,	\$589,628.53	
Departments and activities with deficiencies of income,	226,711.24	
Net accumulation,		<u>\$862,917.29</u>

DISTRIBUTION OF BALANCES AND DEFICIENCIES

Departmental balances of income from restricted funds,	\$493,063.71	
Departmental deficits of income from restricted funds,	118,793.71	
Departmental balances reserved for restricted purposes,		\$374,269.00
Non-departmental deficits of income from restricted funds,	\$38,914.21	
Non-departmental balances of income from restricted funds,	27,747.39	
Non-departmental balances met by charges against Funds and Gifts,		1,166.82
Total unexpended restricted income transferred to Funds and Gifts,		\$373,102.18
Income unapportioned,		4,661.44
		<u>\$377,763.62</u>
Deficits of income allotted to depart- ments,	\$79,008.32	
Balances of general income allotted to departments and balances of restricted income used to repay former advances,	64,156.99	
Net balance carried to Exhibit B,		<u>14,846.33</u>

\$862,917.29

EXHIBIT D

GIFTS FOR CAPITAL

For the year ended June 30, 1919

ESTABLISHING NEW FUNDS OR INCREASING OLD ONES

Graduate School of Architecture:

"The Departments of Architecture and Landscape Architecture Additions Fund":

Anonymous:

Additional:

Cash	\$81,142.00	
Securities valued at	18,858.00	\$100,000.00

Arnold Arboretum:

Endowment Fund:

Miss Alice E. Kingsbury:

Securities valued at	\$1,898.40	
George von L. Meyer	200.00	
Dudley L. Pickman	2,500.00	4,598.40

Maria A. Evans (Mrs. Robert D. Evans),
Estate of:

On account of her bequest of \$25,000
to "The Arnold Arboretum":

Cash	\$543.85	
Securities valued at	7,300.00	7,843.85

"Massachusetts Society for Promoting Agriculture Fund":

Massachusetts Society for Promoting Agriculture	500.00
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Blue Hill Meteorological Observatory:

Aimée Sargent (Mrs. Winthrop Sargent),
Estate of:

Her bequest "to the President and Fellows of Harvard College . . . to be used for the general purposes of the Blue Hill Observatory . . . "	25,000.00
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Amount carried forward, . . .	\$137,942.25
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Amount brought forward, . . .

\$137,942.25

College:

"Edward Atkinson Fund":

Edward W. Atkinson:

"20 per cent of the income in each year shall be added to the principal." The remainder of the annual income "is to be used for the benefit of the Economics Department, or of Students primarily interested in that Department. It may be used for providing or increasing Salaries of Instructors or Professors, for Scholarships, Fellowships, or for loans to Students." . . . whenever . . . "the total income shall be sufficient to pay the current salary of a Professor, the Fund shall thereafter be known as the Edward Atkinson Professorship, and the income shall be used accordingly.":

Securities valued at

26,427.50

"Joseph Hodges Choate Memorial Fellowship":

In memory of Joseph Hodges Choate, of the Class of 1852:

"The income in each year is to be paid to a British subject who may come from the University of Cambridge, England, to study in any department of Harvard University, upon the appointment and recommendation of the then Vice Chancellor of the University of Cambridge, or of such other officer of said University as may be duly authorized . . . "

40,000.00

Arthur M. Allen
Charles E. Andrews, Jr.
Anonymous
Charles L. Appleton
Francis R. Appleton
Francis R. Appleton, Jr.
James W. Appleton
Edwin F. Atkins
Francis M. Bacon, Jr.
Paul V. Bacon

Robert Bacon
George G. Ball
J. Colby Bassett
Nathaniel H. Batchelder
Edmund L. Baylies
Boylston A. Beal
William W. Ben
George Blagden
H. B. Blair
• Cornelius N. Bliss, Jr.

Amount carried forward, . . .

\$204,369.75

Amount brought forward, . . .

\$204,369.75

College (*continued*):

"Joseph Hodges Choate Memorial Fellowship"

(*continued*):

Robert Woods Bliss
 Lloyd Booth
 John C. Breckenridge
 W. Kirkpatrick Brice
 Peter C. Brooks
 Charles A. Brown
 Lewis B. Brown
 Gilbert G. Browne
 John P. Browning, Jr.
 Seaver B. Buck
 Kenneth P. Budd
 Charles C. Burlingham
 Winthrop Burr
 Middleton S. Burrill
 Arthur P. Butler
 Charles S. Butler
 James Byrne
 George F. Canfield
 J. Franklin Carter
 David Cheever
 Edmund A. S. Clarke
 Harward W. Cram
 Richard T. Crane, 3d
 Edward C. Cullinan
 Greely S. Curtis
 James F. Curtis
 Bronson M. Cutting
 Mrs. W. Bayard Cutting
 Harold W. Dana
 Daniel J. Danker
 Lafayette H. DeFriesse
 George B. de Gersdorff
 Warren Delano
 James Lloyd Derby
 Frederic F. de Rham
 George W. Dickerman
 Daniel F. Downs
 Tracy Dows
 William K. Draper
 Carroll Dunham
 Edward K. Dunham
 Alexis I. Du Pont
 George J. Dyer
 Percival Eaton, Jr.
 Frederick L. Eldridge

Charles W. Eliot
 Howard Elliott
 Elliot S. Emerson
 D. Roger Englar
 Edgar C. Felton
 Edward N. Fenno, Jr.
 Mansfield Ferry
 Rolfe Floyd
 Austen G. Fox
 Hugh Corby Fox
 George S. Franklin
 Sanford H. E. Freund
 Theodore L. Frothingham
 Thomas T. Gaff
 Thornton Gerrish
 Rodman de K. Gilder
 Elliott H. Goodwin
 Frederic S. Goodwin
 Frederic S. Gould
 Lawrence Gourlay
 Robert Grant, Jr.
 Henry G. Gray
 Morris Gray, Jr.
 John Greenough
 Louis M. Greer
 Randolph C. Grew
 Lawrence I. Grinnell
 Seaman G. Gunther
 Everett L. Hackes
 Charles S. Haight
 Alexander B. Halliday
 John W. Hallowell
 N. Penrose Hallowell
 Paul L. Hammond
 John L. Handy
 Alpheus S. Hardy
 Edward A. Harriman
 Harvard Engineering Society
 of New York
 LeRoy Harvey
 M. Graeme Haughton
 Clarence L. Hay
 Isaac P. Hazard
 Omri F. Hibbard

Amount carried forward, . . .

\$204,369.75

Amount brought forward, . . .

\$204,369.75

College (*continued*):

"Joseph Hodges Choate Memorial Fellowship"
(continued):

Henry L. Higginson	Langdon P. Marvin
Mrs. James J. Higginson	Austin B. Mason
William H. R. Hilliard	William G. Mason
Clement S. Houghton	Frederick S. Mead
George H. Howard	John S. Melcher
Edgar Huidekoper	Edwin G. Merrill
Joseph Howland Hunt	Roger B. Merriman
Melville E. Ingalls	Edward H. Merritt
Edward Ingraham	George N. Miller
O'Donnell Iselin	Charles A. Milliken
Martin H. Ittner	Ogden L. Mills
Arthur C. Jackson	Charles A. Mitchell
Frederic B. Jennings	George P. Montague
Pliny Jewell	Victor Morawetz
Edward C. Johnson	J. Pierpont Morgan
J. E. Jopking	Dave H. Morris
Maxwell A. Kilvert	George A. Morse
James G. King	William J. Morton
Herbert D. Kingsbury	Harris P. Mosher
Francis H. Kinnicutt	Percy Mulock
Gardner S. Lamson	J. Archibald Murray
Joseph Lee	Elkan Naumburg
Albert C. Lehman	Walter W. Naumburg
Herbert M. Lloyd	F. Maurice Newton
Arthur H. Lockett	Chauncey W. Norton
Russell H. Loines	Howard Notman
Thornton K. Lothrop, Jr.	James A. Noyes
James B. Lowell	Frederick L. Olmsted
Marklove Lowery	Leonard E. Opdycke
Stephen B. Luce, Jr.	William C. Osborn
James B. Ludlow	Arthur W. Page
Joseph W. Lund	Parker W. Page
Theodore Lyman	George L. Paine
Philip J. McCook	William S. Patten
José A. Machado	George Foster Peabody
Julian W. Mack	Franklin D. Peale
David Ives Mackie	William G. Peckham
Silas B. McKinley	Robert P. Perkins
George S. Mandell	Seymour M. Peyser
Albert Mann	Norman A. Phemister
S. Vernon Mann	William Phillips
Parker E. Marean	George F. Plimpton
Herbert S. Martin	Frank L. Preston
Edmund R. Marvin	John C. Prizer

Amount carried forward, . . .

\$204,369.75

Amount brought forward, . . .

\$204,369.75

College (continued):

"Joseph Hodges Choate Memorial Fellowship"

(continued):

Earl B. Putnam	Thomas A. Storey
William M. Randol	Charles E. Stratton
Curt H. Reisinger	Herbert N. Straus
George G. Reynolds	Jesse I. Straus
Harrison G. Rhodes	Percy S. Straus
Edward O. Richards	Reginald L. Sweet
Edward P. Richardson	James E. Switzer
Austen F. Riggs	Henry O. Taylor
George Roberts	Louis B. Thacher
F. H. Robinson	Edwin C. Thayer
Nelson L. Robinson	William Thomas
Francis Rogers and Mrs. Rogers	Samuel Thorne, Jr.
Willet C. Roper	Albert Thorndike
Arthur C. Rounds	Sturgis H. Thorndike
John E. Rousmaniere	Carl W. Timpson
Charles H. Russell	Charles A. Tomes
Paul J. Sachs	Samuel B. Trainer
John L. Saltonstall	Walter Trimble
Richard M. Saltonstall	Alfred Tuckerman
Henry A. L. Sand	Eliot Tuckerman
William Cary Sanger	Augustus Van Cortlandt
Anton H. Schefer	Henry S. Van Duzer
Henry Schenck	Stephen Van Rensselaer
William H. Schofield	Henry Walters
James Schouler	Milton B. Warner
Clinton H. Scovell	Henry B. Washburn
Schuyler F. Seager	Edward M. Weld
William R. Sears	Edgar H. Wells
Mark S. Severance	Arthur R. Wendell
Lawrence E. Sexton	William G. Wendell
Frederick C. Shattuck	Daniel B. Wentz
George B. Shattuck	Charles Wheeler
George C. Shattuck	Alexander M. White
Francis Shaw	William A. White
James Sheldon	Alexander Whiteside
Thomas W. Slocum	Richard Whitney
Howard C. Smith	Gibson T. Williams
Eliot Spalding	William Williams
Albert A. Sprague	G. Owen Winston
James O. Stack	J. Walter Wood
Stephen T. Stackpole	Willis P. Woodman
William B. C. Stickney	James H. Woods
Henry L. Stimson	William Woodward
Nathaniel H. Stone	Richard A. Zerega

Amount carried forward,

\$204,369.75

Amount brought forward, . . . \$204,369.75

College (*continued*):

Robert P. Clapp:

Restricted until a certain specified time during which the income (and principal, if desired) shall be used to purchase reference books for the Department of Economics; at the expiration of the time during which the gift is restricted, the balance (if any) shall "be applied to such uses as Professor Taussig, if then living and connected with the College, shall approve; or, should he not then be living or connected with the College, then to such uses as the Treasurer of the College for the time being may think best." . . .

5,000.00

"Charles Dexter Memorial Fund":

Miss Annie L. Dexter, Estate of:

On account of her residuary bequest, in memory of her father, Charles Dexter, of the Class of 1851, "the income therefrom to be used in encouraging young men to study profoundly the English language.

"If the Faculty of said Harvard University can so arrange travelling scholarships to enable young men to visit Oxford and Cambridge in England, or the Cathedral towns of England, it would surely be to their advantage, these scholarships to be known as the 'Charles Dexter Scholarships.'"

Securities valued at

27,005.00

"Lieutenant Charles Henry Fiske, 3rd, Scholarship":

Charles Henry Fiske, Jr. and Mrs. Fiske:

The "income to be awarded annually, at the discretion of the University authorities, to one, or more, young men of French nationality whose homes are in France, studying, or proposing to study, in any department of the University . . ."

8,000.00

Amount carried forward, . . .

\$244,374.75

Amount brought forward, . . . \$244,374.75

College (*continued*):

" Franklin Temple Ingraham Memorial Fund ":

Mrs. Franklin B. Ingraham:

In memory of her son, Franklin Temple Ingraham, of the Class of 1914,
" the income to be used for scholar-
ships . . . ":

Securities valued at 19,330.00

Hugo Reisinger, Estate of:

Additional, on account of his bequest
of \$50,000: " to Harvard University
. . . for the use of its Germanic Mu-
seum." 12,821.92

Josiah Royce Memorial Fund:

Charles N. Baxter	\$1.00
Mrs. S. Parkman Blake	500.00
J. McKeen Cattell	10.00
William Merriam Chadbourne	100.00
James F. Curtis	10.00
Andrew McFarland Davis	1,000.00
Horace T. Fogg	25.00
" A friend "	100.00
A friend	500.00
A friend	50.00
" Friend of Josiah Royce "	50.00
H. Norman Gardiner	10.00
Edwin H. Hall	100.00
Henry L. Higginson and Mrs. Higginson	1,000.00
William Ernest Hocking:	
Securities valued at	49.48
Allen Jacobs	1.00
Jacob Loewenberg	50.00
G. A. Miller	2.00
Jared S. Moore	10.00
Franklin W. Moulton	5.00
George Herbert Palmer	200.00
James J. Putnam:	
Securities valued at	100.00
Paul J. Sachs	25.00
Major G. Seelig	5.00

Amounts carried forward, . . . \$3,903.48 \$276,526.67

Amounts brought forward, . . . \$3,903.48 \$276,526.67

College (*continued*):

Josiah Royce Memorial Fund (*continued*):

John Maxson Stillman	10.00	
William R. Thayer	50.00	
Holmes Whitmore	2.00	
James H. Woods	50.00	4,015.48

"The Wallace C. Sabine Memorial Fund":

Restricted until a certain specified time, after which, the income shall be available "for the promotion of research work in the Physics Department of Harvard University":

Anonymous	\$3,000.00	
Anonymous:		
Securities valued at	47,255.00	
Mrs. Ernest B. Dane:		
Securities valued at	50,000.00	100,255.00

"Winthrop Sargent Prize":

Aimée Sargent (Mrs. Winthrop Sargent),
Estate of:

Her bequest "for the purpose of providing from the income thereof a prize of one hundred dollars (\$100) annually, to be known as the Winthrop Sargent Prize for the best essay relating to Shakespeare or Shakespeare's work by any student of the University upon such terms and conditions as they may determine from time to time for the competition." 2,500.00

"The Frederick Sheldon Fund":

Amey Richmond Sheldon (Mrs. Frederick Sheldon), Estate of:

Additional 901.62

Teachers' Endowment Fund:

From previous contributors 50.00

Amount carried forward, . . . \$384,248.77

GIFTS FOR CAPITAL

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Amount brought forward, . . . \$384,248.77

College (*continued*):

"Jerome Wheelock Fund":

Jerome Wheelock, Estate of:

Additional, on account of his bequest
of \$100,000 10.00

"Alfred Tredway White Endowment for the Department of Social Ethics":

Alfred Tredway White:

"for the purpose of adding to the in-
come of the Department of Social
Ethics to provide for any necessary
increase of its work or expansion of
its courses." :
Securities valued at 50,000.00

Dental School:

Endowment Fund:

George H. Monks 225.00

Dental School Endowment of the Class of 1891:

Members of the Class 80.00

Dental School Endowment of the Class of 1892:

Members of the Class 100.00

Dental School Endowment of the Class of 1901:

Hugh K. Hatfield 25.00

Dental School Endowment of the Class of 1904:

Nathan A. Estes 25.00

Maria A. Evans (Mrs. Robert D. Evans), Estate of:

On account of her bequest of \$25,000
to "The Harvard Dental School":

Cash	\$543.85	
Securities valued at	7,300.00	7,843.85

Amount carried forward, . . . \$442,557.82

Amount brought forward, . . . \$442,557.62

Dental School (*continued*):

Norman H. George, Estate of:

His bequest of \$10,000 (plus accrued interest) to "The Harvard Dental School . . . to be invested as an endowment fund and the income to be used for general purposes of said school." 10,238.88

Gray Herbarium:

Asa Gray Memorial Fund:

Emile F. Williams 50.00

Law School:

Andreas Blume, Estate of:

His bequest of \$500 (plus accrued interest) "to Harvard University . . . in gratitude for the assistance afforded me as a student in the Dane Law School of said University in the years 1863 and 1864 while studying law." 511.66

"William Cheney Brown, Jr., Scholarship":

Mrs. William Cheney Brown, Jr.:

In memory of her husband, William Cheney Brown, Jr., of the Class of 1914. "The income shall be paid each year on the nomination of the Faculty of the Harvard Law School to some deserving student of good ability in the first year class of the school . . .":

Cash	\$42.50	
Securities valued at	2,500.00	2,542.50
Amount carried forward, . . .		<hr/> \$455,900.66

GIFTS FOR CAPITAL

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Amount brought forward, . . . \$455,900.66

Law School (*continued*):

Byrne Professorship of Administrative Law:

James Byrne:

Additional:

Cash	\$48.68	
Securities valued at	19,992.32	20,041.00

Endowment Fund:

Murray Seasongood 250.00

Library:

Richard Mather Jopling Memorial:

James Edmund Jopling and Mrs. Jopling:

In memory of their son, Richard Mather Jopling, of the Class of 1916, the income to be used for the purchase of books on Music for the College Library 500.00

Hugo Reisinger, Estate of:

Additional, on account of his bequest of \$5,000: "to Harvard University . . . to be used solely for the purchase of German books for its library." . . . 1,282.19

Medical School:

"The Gordon Bartlett Scholarship":

Donald Gordon and Mrs. Gordon:

In memory of their nephew, Gordon Bartlett, "the income (to) be used to assist deserving undergraduates or graduates of the Harvard Medical School in such manner as the Faculty may determine, — a preference being given to the graduates of Dartmouth College."

Securities valued at	10,000.00
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Amount carried forward, . . .	\$487,973.85
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Amount brought forward, . . . \$487,973.85

Medical School (*continued*):

Bullard Professorship of Neuropathology:

Edward W. Atkinson	\$100.00	
Samuel E. Berman	1.00	
Patrick Cannon	10.00	
Arthur A. Carey	5.00	
William H. Downs	5.00	
Charles W. Eliot and Mrs. Eliot	250.00	
Mrs. Arthur T. Howard	25.00	
Elliott P. Joslin and Mrs. Joslin	25.00	
Mrs. Robert S. Russell	100.00	
Asahel M. Shurtleff	5.00	
John W. Wilson	5.00	
William M. Wood	500.00	
Accrued interest	133.53	1,164.53

"Colburn Fund":

Frances E. Colburn (Mrs Charles H. Colburn), Estate of:

Her bequest of \$100,000 (less inheritance taxes), "to apply the income thereof, under the advice of the Faculty of the Harvard Medical School, for the promotion of researches and investigations for the discovery of some effectual remedy or means of cure for Tuberculosis, until a satisfactory or effectual remedy, or means of cure for said disease shall be discovered, and thereafter for the discovery of some effectual remedy or means of cure, for some other disease, generally supposed to be incurable or known to yield with extreme difficulty to ordinary remedial measures. . . ."

97,052.50

"Horace Putnam Farnham Scholarships":

Eliza Cary Farnham (Mrs. Horace P. Farnham), Estate of:

In memory of her husband, Horace P. Farnham, of the Class of 1843, "to create two scholarships in the Harvard Medical School. . . The income to

Amount carried forward, . . . \$586,190.88

Amount brought forward, . . . \$586,190.88

Medical School (*continued*):

"Horace Putnam Farnham Scholarships" (*continued*):

be used for the assistance of meritorious students of limited pecuniary resources" 12,000.00

Harvard Medical Alumni Fund:

Harvard Medical Alumni Association:

Securities valued at 1,902.80

"James C. Melvin Fund":

Anonymous:

The income to be applied "toward the furtherance of Preventive Medicine of which Tropical Medicine may be regarded as a branch. . . " . . . 50,000.00

George von L. Meyer, Estate of:

His bequest of \$2,500 "to the Trustees of the Huntington Hospital in Boston for the use of said Hospital . . ." 2,500.00

Observatory:

"The Henry Draper Memorial Fund":

Mary Anna Palmer Draper (Mrs. Henry Draper), Estate of:

Additional, on account of her bequest of \$150,000 7,500.00

University:

Anonymous Fund No. 4:

Additional 50,000.00

Arabella Stuart Bowen (Mrs. Francis Bowen), Estate of:

"in memory of Francis Bowen (of the Class of 1833), late Alford Professor of Natural Religion, Moral Philosophy and Civil Polity." 8,000.00

Amount carried forward, . . . \$718,093.68

Amount brought forward, . . .		\$718,093.68
University (continued):		
Godfrey L. Cabot:		
"for the general purposes of the University."		10,000.00
Class of 1894 Fund:		
Twenty-fifth Anniversary Fund:		
Additional:		
Cash	\$31,747.30	
Securities valued at	53,252.70	85,000.00
Class of 1896 Fund:		
Twenty-fifth Anniversary Fund:		
Additional		10,000.00
Class of 1899 Fund:		
Twenty-fifth Anniversary Fund:		
Additional		2,000.00
Samuel S. Greeley, Estate of:		
His unrestricted bequest		1,000.00
Harvard Endowment Fund:		
From sundry subscribers		111,000.00
Robert Darrah Jenks Scholarship:		
Mrs. Robert D. Jenks and Mrs. William Furness Jenks:		
Additional:		
Securities valued at		2,000.00
"Gordon McKay Endowment":		
Gordon McKay, Estate of:		
Additional, on account of his residuary bequest		144,434.57
Amount carried forward, . . .		\$1,083,528.25

GIFTS FOR CAPITAL

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Amount brought forward, . . . \$1,083,528.25

University (*continued*):

William S. Murphy, Estate of:

Additional 35.00

Richard Black Sewall, Estate of:

On account of his residuary bequest
to "the corporation of the President
and Fellows of Harvard College at
Cambridge . . .":

Securities valued at 238,934.00

Museum of Comparative Zoölogy:

"Maria Whitney and James Lyman Whitney Fund":

James Lyman Whitney, Estate of:

Additional, on account of his resid-
uary bequest

56.19

Total, \$1,322,553.44

GIFTS FOR IMMEDIATE USE

For the year ended June 30, 1919

Graduate School of Architecture:

To be added to the income of "The Departments of Architecture and Landscape Architecture Additions Fund":

Anonymous \$11,250.00

Arnold Arboretum:

To increase the income:

Thomas Allen	\$100.00
Oliver Ames	100.00
Larz Anderson and Mrs. Anderson	200.00
Samuel Appleton	100.00
Miss Ellen S. Bacon	100.00
Walter C. Baylies	100.00
Mrs. James H. Beal	100.00
E. Pierson Beebe	200.00
Frank B. Bemis	100.00
William Sturgis Bigelow	500.00
George Nixon Black	100.00
Mrs. Francis Blake	100.00
Edward D. Brandegee and Mrs. Brandegee	200.00
Miss Fannie R. Brewer	100.00
Peter C. Brooks	200.00
Albert C. Burrage	100.00
Samuel D. Bush	100.00
"E. S. C."	50.00
Mrs. Andrew Carnegie	100.00
Miss Louise W. Case	100.00
Miss Marian R. Case	100.00
Alexander Cochrane	100.00
Mrs. James M. Codman	100.00
William R. Coe	100.00
Miss Alice S. Coffin	100.00
Charles A. Coffin	100.00
T. Jefferson Coolidge	100.00
Charles E. Cotting	100.00
Frederick G. Crane	100.00
Richard T. Crane, Jr.	100.00
W. Murray Crane	100.00

Amounts carried forward, . . . \$3,850.00

\$11,250.00

Amounts brought forward, . . . \$3,850.00 \$11,250.00

Arnold Arboretum (*continued*):

To increase the income (*continued*):

Z. Marshall Crane	100.00
Mrs. Stephen V. R. Crosby	100.00
Mrs. Charles H. Dalton	100.00
Mrs. Ernest B. Dane	1,000.00
Mrs. Arthur E. Davis	100.00
Mrs. Robert L. Day	25.00
William B. H. Dowse	100.00
George A. Draper	100.00
Henry A. Du Pont	1,000.00
Henry F. Du Pont	1,000.00
Miss Hannah M. Edwards	100.00
Mrs. Thomas J. Emery	500.00
William Endicott	100.00
Arthur F. Estabrook	100.00
Mrs. Max Farrand	30.00
Mrs. Joseph S. Fay	100.00
Mrs. W. Scott Fitz	100.00
Desmond FitzGerald	100.00
Mrs. Henry Ford	100.00
Mrs. James G. Freeman	200.00
Mrs. Louis A. Frothingham	1,000.00
William A. Gaston	100.00
Mrs. William A. Gaston	25.00
Mrs. Henry S. Grew	100.00
Augustus Hemenway	100.00
Anton G. Hodenpyl	350.00
Clement S. Houghton	100.00
Henry S. Howe	100.00
Henry S. Hunnewell and Mrs. Hun- newell	500.00
Walter Hunnewell	100.00
Charles L. Hutchinson	200.00
Mrs. Oscar Lasigi	100.00
Nathaniel T. Kidder	100.00
Mrs. David P. Kimball	100.00
The Knapp Fund, Trustees of	500.00
Horatio A. Lamb and Mrs. Lamb	100.00
Mrs. Gardiner M. Lane	100.00
Mrs. Amory A. Lawrence	100.00
Louis K. Liggett	250.00
Mrs. William Caleb Loring	100.00
Arthur Lyman	50.00
Cyrus H. McCormick	200.00

Amounts carried forward, . . . \$13,280.00 \$11,250.00

Amounts brought forward, . . . \$13,280.00 \$11,250.00

Arnold Arboretum (*continued*):

To increase the income (*continued*):

Miss Fanny P. Mason	100.00
Massachusetts Society for Promoting Agriculture	2,000.00
George H. Mifflin	100.00
Miss Susan Minns	100.00
Mrs. J. Pierpont Morgan, Jr.	100.00
Lewis R. Morris	100.00
Miss Lydia T. Morris	100.00
Mrs. John T. Morse	100.00
Frederick S. Moseley	100.00
Robert Osgood	100.00
George A. Peabody	100.00
John E. Peabody	100.00
Charles L. Peirson	100.00
Mrs. John C. Phillips	50.00
Stephen W. Phillips and Mrs. Phillips	100.00
Dudley L. Pickman	100.00
Mrs. Dudley L. Pickman	100.00
Wallace L. Pierce	100.00
David Pingree	500.00
Laban Pratt	100.00
William L. Richardson	100.00
Mrs. Jacob C. Rogers	100.00
Miss Marian Russell	300.00
Mrs. Robert S. Russell	100.00
Richard M. Saltonstall	100.00
Charles S. Sargent, Jr.	100.00
Mrs. Lucius M. Sargent	100.00
Mrs. J. Montgomery Sears	100.00
Mrs. Knyvet W. Sears	100.00
Mrs. Richard D. Sears	100.00
Mrs. G. Howland Shaw	50.00
John T. Spaulding }	50.00
William S. Spaulding }	
Charles A. Stone and Mrs. Stone	200.00
Galen L. Stone	500.00
Nathaniel H. Stone	100.00
Charles E. Stratton	100.00
Charles H. Taylor	100.00
Charles H. Tenney	500.00
John E. Thayer	250.00
Mrs. Nathaniel Thayer	100.00

Amounts carried forward, . . . \$20,680.00 \$11,250.00

Amounts brought forward, . . \$20,680.00 \$11,250.00

Arnold Arboretum (*continued*):**To increase the income (*continued*):**

Robert E. Townsend	15.00	
Charles H. Tyler	50.00	
Charles C. Walker	100.00	
Edwin S. Webster and Mrs. Webster	200.00	
Frank G. Webster and Mrs. Webster	200.00	
Laurence J. Webster and Mrs. Webster	200.00	
Mrs. Charles G. Weld	100.00	
Stephen M. Weld and Mrs. Weld .	200.00	
William P. Wharton	100.00	
Mrs. Stephen G. Wheatland . . .	100.00	
George R. White	1,000.00	
William Whitman	100.00	
John D. Williams	100.00	23,145.00

Bermuda Biological Station for Research:**General purposes:**

George R. Agassiz	\$200.00	
Rodolphe L. Agassiz	200.00	
Anonymous	175.00	
Alexander Forbes	100.00	
W. Cameron Forbes	300.00	
Frederick P. Fish	100.00	
Nathaniel T. Kidder	50.00	
James F. Porter	100.00	1,225.00

Salaries:

William Sturgis Bigelow	350.00
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Blue Hill Meteorological Observatory:**Salaries:**

Mrs. A. Lawrence Rotch	1,500.01
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Botanical Museum:**Present use:**

Anonymous	1,500.00
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Amount carried forward, . . .	\$38,970.01
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Amount brought forward, . . .		\$38,970.01
Graduate School of Business Administration:		
Guaranteed Deficit Fund:		
Anonymous	\$500.00	
Walter C. Baylies	3,000.00	
Hermann F. Clarke	50.00	
The Commonwealth Shoe and Leather Company	50.00	
Howard Coonley	75.00	
Arthur F. Estabrook	100.00	
Estabrook and Company	250.00	
Charles F. Fairbanks	100.00	
Fred F. Field	50.00	
Edwin Farnham Greene	100.00	
Ralph P. Hazzard	50.00	
Charles H. Jones	75.00	
George E. Keith Company	50.00	
John S. Lawrence	75.00	
Herbert W. Mason	100.00	
Thomas G. Plant Company	50.00	
Arch Wilkinson Shaw	1,000.00	
Winfield L. Shaw	25.00	
Philip L. Spalding	100.00	
Galen L. Stone	3,000.00	
Stuart W. Webb	100.00	
Samuel Weill	50.00	
Orrin G. Wood	100.00	
E. T. Wright and Company, In- corporated	50.00	9,100.00
Library of the Graduate School of Business Administration:		
Paul E. Fitzpatrick	\$75.00	
Frederick L. Olmsted }	50.00	125.00
John C. Olmsted }		
Course in Printing:		
J. Pierpont Morgan	\$100.00	
The United Typothetae of America.	1,225.00	1,325.00
College:		
Department of Botany:		
Ernest B. Dane		300.00
Amount carried forward, . . .		\$49,820.01

Amount brought forward, . . .		\$49,820.01
College (continued):		
Division of Chemistry:		
"Du Pont Fellowship":		
E. I. du Pont de Nemours and Com- pany		1,250.00
Department of Economics:		
Foreign Trade Investigation:		
American International Corporation	\$250.00	
Consolidated Steel Corporation . .	250.00	
W. R. Grace and Company	250.00	
J. P. Morgan and Company	250.00	
United States Steel Products Com- pany	250.00	1,250.00
Publications:		
Ogden L. Mills		100.00
Services and wages:		
Clement R. Lamson		125.01
Division of Education:		
Bureau of Vocational Guidance:		
General purposes:		
Central Oil and Gas Stove Com- pany	\$100.00	
A. Lincoln Filene	2,000.00	
F. M. Hoyt Shoe Company . .	250.00	
W. H. McElwain Company . .	1,000.00	3,350.00
For research in the occupational con- ditions of the physically handicapped:		
American Optical Company . .	\$100.00	
Anonymous	50.00	
Anonymous	25.00	
Atlas Tack Company	25.00	
Braman, Dow and Company .	50.00	
Eastern Manufacturing Com- pany	500.00	
William Filene's Sons Company	100.00	
Amounts carried forward, . . .	\$850.00	\$55,895.02

GIFTS FOR IMMEDIATE USE

Amounts brought forward, . . .	\$350.00	\$55,895.02
College (<i>continued</i>):		
Division of Education (<i>continued</i>):		
Bureau of Vocational Guidance (<i>continued</i>):		
For research in the occupational conditions of the physically handicapped (<i>continued</i>):		
Florence Manufacturing Company	100.00	
Peter Gray and Sons, Incorporated	100.00	
Gray and Davis, Incorporated	100.00	
International Cotton Mills	50.00	
George E. Keith Company	100.00	
Lewis Manufacturing Company	100.00	
Loose-Wiles Biscuit Company	50.00	
New England Confectionery Company	100.00	
New York-New England Company	50.00	
Shepard Norwell Company	50.00	
Talbot Mills	100.00	
Waltham Machine Works	25.00	
Whittemore Brothers Corporation	50.00	1,825.00
Employment Management Course:		
E. B. Badger and Sons Company		100.00
Special Fund for 1919-1920:		
Amoskeag Manufacturing Company	\$500.00	
Boston Woven Hose and Rubber Company	300.00	
Hilliard and Merrill, Incorporated	15.00	
R. H. White Company	100.00	915.00
Special Fund for 1919-1920:		
Frederick P. Cabot	\$100.00	
James J. Storrow	5,000.00	5,100.00
Department of English:		
Publications:		
Henry Ten Eyck Perry	\$500.00	
Fred Norris Robinson	116.41	616.41
Amount carried forward, . . .		\$64,451.43

GIFTS FOR IMMEDIATE USE

35

Amount brought forward, . . . \$64,451.43

College (*continued*):

Division of The Fine Arts:

Prizes:

Henry S. Bowers 75.00

Department of Geology:

Economic Geology:

John E. Wolff 250.00

Department of Germanic Languages and Literatures:

Hans C. G. von Jagemann 50.00

Department of Government:

Publications:

Robert F. Herrick 300.00

Bureau of Municipal Research:

Clarke Thomson	\$625.00	
Frank Graham Thomson	625.00	1,250.00

Division of Music:

Present use:

Percy Lee Atherton	\$150.00	
W. Kirkpatrick Brice	100.00	
Mrs. Thomas J. Emery	100.00	
Otto H. Kahn	50.00	
Mrs. John Markoe	50.00	
Dave H. Morris	75.00	
William Phillips	25.00	
Philip L. Spalding	25.00	
Felix M. Warburg	50.00	
Paul M. Warburg	50.00	675.00

Amount carried forward, . . . \$67,051.43

Amount brought forward, . . .	\$67,051.43
College (<i>continued</i>):	
Division of Physics:	
To be added to the income of the Endowment Fund of the Jefferson Physical Laboratory:	
Anonymous	1,000.00
To increase the income of "The Wallace C. Sabine Memorial Fund":	
Mrs. Ernest B. Dane	2,000.00
Fellowships:	
Spanish-American:	
George L. Lincoln	500.00
Prizes:	
Jeremy Belknap:	
Philippe B. Marcou	50.00
"Harvard Menorah Society Prize":	
Harvard Menorah Society	100.00
"Susan Anthony Potter Prizes:	
Mrs. Murray Anthony Potter . . .	225.00
Salaries:	
Rodolphe L. Agassiz	\$100.00
Anonymous	1,283.00
Anonymous	100.00
Mrs. Ralph Emerson Forbes . . .	100.00
Waldo E. Forbes	25.00
Joseph Lee	4,150.00
Irving Lehman	320.50
	<hr/> 6,078.50
Scholarships:	
Anonymous	200.00
Anonymous	150.00
Julian Henry Reinherz:	
Mrs. Etta Barite Reinherz	250.00
	<hr/>
Amount carried forward, . . .	\$77,604.93

Amount brought forward, . . . \$77,604.93

College (continued):

Scholarships (continued):

Ricardo Prize Scholarship:

Anonymous 350.00

Charles Sumner:

Charles Sumner Bird 200.00

University:

William Amory Gardner 200.00

Harvard Clubs Scholarships:

Associated	300.00
Boston	800.02
Chicago	883.33
Cincinnati	300.00
Cleveland	200.00
Connecticut	133.34
Kansas City, Missouri	200.00
Long Island	400.00
Louisiana	50.00
Maryland	250.00
Michigan	125.00
Milton	250.00
New Jersey	250.00
Western Pennsylvania	250.00
Rhode Island	200.00
St. Louis	600.00
San Francisco	400.00
Washington, D. C.	300.00
Worcester	200.00

Scholarship and Beneficiary Money Returned:

Major W. Barber	\$100.00	
William Stetson Merrill	1.68	101.68

Anonymous purpose:

Anonymous 150.00

Amount carried forward, . . . \$84,698.30

Amount brought forward, . . .		\$84,698.30
College (<i>continued</i>):		
Dean's Loan Fund:		
In memory of Philip Washburn Davis, of the Class of 1908:		
Charles Hadley Watkins		50.00
To be added to the income of the Teachers' Endowment Fund:		
Edwin H. Abbot		400.00
Undergraduate Instruction:		
Henry L. Shattuck		50.00
Unrestricted:		
Anonymous	\$300.00	
Harvard Mutual Foundation . . .	508.73	
Richard H. Troy	1.00	809.73
College Yard:		
Tree Fund:		
Class of 1898		65.00
Dental School:		
Current Expenses:		
Benjamin H. Codman		10.00
Divinity School:		
Library of the Divinity School:		
Society for Promoting Theological Education		3,976.14
Publications:		
J. Pierpont Morgan		500.00
Salaries:		
Horace S. Sears		1,000.00
Amount carried forward, . . .		\$91,559.17

Amount brought forward, . . . \$91,559.17

The William Hayes Fogg Art Museum:

To be added to the income of the William
Hayes Fogg Fund:

Anonymous	\$465.82	
George H. Chase	15.00	
George H. Chase }	15.00	
Arthur Pope		
Mrs. Ludwig Dreyfuss	150.00	
Julius Goldman	1,000.00	
Arthur Lehman	250.00	
Harry Sachs	500.00	
Walter E. Sachs	50.00	
Felix M. Warburg	750.00	3,195.82

For the purchase of five water-colors, by
Ruskin:

Samuel Sachs	1,800.00
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" Gift of Mrs. Samuel Sachs ":

Mrs. Samuel Sachs	2,500.00
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" The Society of Friends of the Fogg Art
Museum "

1,615.00

Mrs. Copley Amory	Miss Hester Cunningham
William Sumner Appleton	Horatio G. Curtis
Mrs. Harrison O. Apthorp	Harold W. Dana
Mrs. John W. Bartol	Edwin S. Dodge
Boylston A. Beal	Mrs. Ludwig Dreyfuss
Gordon Knox Bell	Charles B. Eddy
George Blumenthal	Richard Ederheimer
Henry S. Bowers	Harold L. Ehrich
Robert Pendleton Bowler	Walter L. Ehrich
Miss Ellen T. Bullard	William Emerson
Miss Katherine E. Bullard	and Mrs. Emerson
Herman Merrick Burr	Martin Erdmann
Winthrop Burr	Albert R. Erskine
Philip Cabot	Miss Louise Fitz
Arthur A. Carey	Edward W. Forbes
Charles T. Carruth	Mrs. Waldo E. Forbes
Waddill Catchings	Charles L. Freer
Miss Eleanor Clarke	Lee M. Friedman
Harold J. Coolidge	G. Peabody Gardner, Jr.
J. Randolph Coolidge, Jr.	Henry Goldman

Amount carried forward, . . . \$100,669.99

Amount brought forward, . . .

\$100,000.00

The William Hayes Fogg Art Museum (continued):**"The Society of Friends of the Fogg Art Museum" (continued):**

Julius Goldman	Barney Sachs
Charles C. Goodrich	Miss Ella Sachs
Morris Gray, Jr.	Harry Sachs
Thomas S. Hathaway	Paul J. Sachs
Joseph C. Hoppin	Walter E. Sachs
François Kleinberger	Jacob H. Schiff
Thomas W. Lamont	Mortimer L. Schiff
Arthur Lehman	Donald Scott
Herbert H. Lehman	Lawrence E. Sexton
Philip Lehman	Frederick Cheever Shattuck
Mrs. Louis Levisieur	Thomas W. Slocum
Charles J. Liebmann	Sydney B. Snow
Philip M. Lydig	Eliot Spalding
Edwin V. Morgan	Emil M. Sperling
J. Pierpont Morgan	James A. Stillman
John Lord O'Brian	Herbert N. Straus
Bradley W. Palmer	John H. Sturgis
Potter Palmer, Jr.	Frits B. Talbot
John C. Phillips	J. Collins Warren
Gustav Pollak	Frederic C. Weld
A. Kingsley Porter	Richard Wheatland
Joseph M. Proskauer	Alexander M. White
Eben Richards	James Platt White
Mrs. John Wallace Riddle	Grenville L. Winthrop
Julius Rosenwald	Clement B. Wood
Arthur Sachs	

Wolcott Gibbs Memorial Laboratory:**Research:**

Anonymous 5,000.00

Gray Herbarium:**Present use:**

Rodolphe L. Agassiz	\$10.00
Mrs. James Barr Ames	20.00
Anonymous	25.00
Anonymous	25.00
Edwin F. Atkins	25.00
Walter C. Baylies	10.00
Thomas P. Beal	10.00

Amounts carried forward, . . . \$125.00 \$105,600.99

Amounts brought forward, . . . \$125.00 \$105,669.99

Gray Herbarium (*continued*):

Present use (*continued*):

William Sturgis Bigelow	10.00
Mrs. Francis Blake	5.00
Mrs. William D. Boardman	10.00
Edward M. Brewer	15.00
Allston Burr	10.00
Miss Louise H. Coburn	10.00
Mrs. James M. Codman	10.00
Mrs. Charles A. Cummings	5.00
Mrs. Frank A. Day	5.00
Walter Deane	10.00
Arthur F. Estabrook	100.00
Dudley B. Fay	10.00
Mrs. W. Scott Fitz	10.00
Mrs. William H. Forbes	5.00
Francis A. Foster	10.00
Mrs. Francis C. Foster	10.00
Miss Harriet E. Freeman	10.00
Mrs. Louis A. Frothingham	10.00
Robert H. Gardiner	10.00
George A. Goddard	10.00
Miss Emily Gray	10.00
Mrs. Henry S. Grew	10.00
Mrs. Augustus Hemenway	10.00
Joseph P. B. Henshaw	10.00
Miss Katharine Horsford	10.00
Clement S. Houghton	20.00
Miss Elizabeth G. Houghton	10.00
Henry S. Howe	10.00
Charles W. Hubbard	10.00
Mrs. Arthur Hunnewell	100.00
Francis Welles Hunnewell	25.00
Henry S. Hunnewell	25.00
Walter Hunnewell	10.00
Miss Anna P. Jackson	10.00
Edward C. Johnson	10.00
Charles A. Kidder	10.00
David P. Kimball	25.00
Mrs. David P. Kimball	25.00
The Misses Kimball	10.00
Mrs. Harriet M. Laughlin	10.00
Elliot C. Lee	50.00
Joseph R. Leeson	100.00
Mrs. George F. Linder	10.00

Amounts carried forward, . . . \$920.00 \$105,669.99

Amounts brought forward, . . . \$920.00 \$105,669.99

Gray Herbarium (*continued*):

Present use (*continued*):

Augustus P. Loring	10.00	
Miss Katharine P. Loring	10.00	
Miss Louisa P. Loring	10.00	
William Caleb Loring	10.00	
Mrs. Thornton K. Lothrop	10.00	
Miss Ellen F. Mason	10.00	
Miss Fanny P. Mason	10.00	
Miss Susan Minns	25.00	
Grenville H. Norcross	10.00	
Mrs. Otis Norcross	10.00	
Mrs. John C. Phillips	10.00	
Mrs. Dudley L. Pickman	10.00	
David Pingree	25.00	
Miss Elizabeth C. Putnam	5.00	
Mrs. George Putnam	10.00	
George E. Richards	10.00	
William L. Richardson	25.00	
Denman W. Ross	10.00	
Mrs. M. Denman Ross	10.00	
Mrs. Waldo O. Ross	10.00	
Mrs. Robert S. Russell	100.00	
Mrs. J. Montgomery Sears	10.00	
Mrs. Knyvet W. Sears	25.00	
Mrs. G. Howland Shaw	10.00	
Nathaniel H. Stone	10.00	
John E. Thayer	100.00	
Charles C. Walker	10.00	
Miss Caroline E. Ward	10.00	
Miss Cornelia Warren	10.00	
Frank G. Webster and Mrs. Webster	40.00	
Stephen M. Weld	10.00	
George Wigglesworth	10.00	
Miss Adelia C. Williams	25.00	
Miss Mary Woodman	10.00	
		<hr/> 1,540.00

Law School:

To pay for framing Coats-of-Arms of English judges:

Anonymous 20.16

Amount carried forward, . . .

\$107,230.15

Amount brought forward, . . . \$107,230.15

Law School (continued):

To meet the cost of the account of the Constitutional Convention in Delaware in 1831:

Anonymous 200.00

Library of the Law School:

Grenville Clark 50.00

Research Scholarship:

Anonymous 250.00

Library:

Purchase of books for the College Library:

George C. Beals, for duplicate books for English 33	\$50.00	
Harold W. Bell	9.00	
Archibald Cary Coolidge	49.80	
Dante Society	100.00	
Harold J. Laski, for one year's subscription to the "Manchester (England) Guardian"	12.00	
Division of Modern Languages	150.00	
Mrs. Luther S. Livingston	21.61	
James Loeb, for Labor periodicals	100.00	
Walter W. Naumburg, for books on Shakespere	200.00	
George Parker Winship	10.41	702.82

Special Expenses:

J. Pierpont Morgan	\$2,500.00	
Robert G. Shaw	150.00	2,650.00

Medical School:

Department of Anatomy:

Miss Sarah F. Bremer 500.00

Department of Bacteriology:

Anonymous 720.00

Department of Neuropathology:

Miss Katherine E. Bullard 500.00

Amount carried forward, . . . \$112,802.97

Amount brought forward, . . .	\$112,802.97
Medical School (continued):	
Department of Physiology:	
Alexander Forbes	540.00
Department of Preventive Medicine and Hygiene:	
National Canners Association . . .	15,000.00
Division of Industrial Hygiene:	
American Optical Company	\$250.00
American Woolen Company	1,000.00
Bemis Brothers Bag Company . . .	1,000.00
" Boston Post "	500.00
Brown and Sharpe Manufacturing Company	500.00
Richard T. Crane, Jr.	2,000.00
W. Murray Crane	1,000.00
Charles A. Dean	100.00
The Edison Electric Illuminating Company of Boston	200.00
Henry B. Endicott	500.00
General Electric Company	1,000.00
Great Falls Manufacturing Company	250.00
Harmony Mills	500.00
Charles C. Jackson	100.00
Lancaster Mills	500.00
Lawrence Manufacturing Company	500.00
Lockwood, Greene and Company .	500.00
Ludlow Manufacturing Associates .	250.00
J. Franklin McElwain	100.00
Edward Mallinckrodt, Jr.	250.00
Massachusetts Gas Companies . .	200.00
J. Pierpont Morgan	500.00
Nashua Manufacturing Company .	500.00
Norton Company	750.00
Norton Grinding Company	250.00
O'Bannon Corporation	250.00
Pacific Mills	1,000.00
Saco-Lowell Shops	500.00
Henry D. Sharpe	1,000.00
Thomas W. Slocum	1,000.00
Galen L. Stone	1,000.00
Suncook Mills	250.00
United States Worsted Company .	500.00
Walworth Manufacturing Company	1,000.00
William H. Wellington	1,000.00
Arthur F. Whitin	200.00
Amount carried forward, . . .	<u>20,900.00</u>
	\$149,242.97

Amount brought forward, . . .

\$149,242.97**Medical School (continued):****Department of Preventive Medicine and Hygiene (continued):****Fund for the study of health conditions in Department Stores:**

Chandler and Company, Incorporated	\$250.00	
Gilchrist Company	350.00	
L. P. Hollander and Company . .	250.00	
Joseph Horne Company	350.00	
C. F. Hovey Company	250.00	
Jordan Marsh Company	500.00	
L. S. Plaut and Company	250.00	
R. H. Stearns and Company . . .	250.00	
R. H. White Company	350.00	
Woodward and Lothrop, Incorporated	350.00	3,150.00

Publications:

William Sturgis Bigelow	\$500.00	
Elliot C. Lee	1,000.00	
Mrs. James C. Melvin	1,000.00	
Frederick C. Shattuck	1,000.00	
Mrs. Frederick C. Shattuck	1,000.00	4,500.00

Services and wages:

New Jersey Zinc Company	60.00
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Department of Tropical Medicine:

Anonymous	\$3,750.00	
Elliot C. Lee	11,000.00	14,750.00

"for research in the treatment of disease,
 . . . also to the study of the nature and cause
 of disease as well as the treatment.":

Committee of the Permanent Charity Fund Incorporated	10,000.00
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Loan Fund:

Julian W. Mack	330.00
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Salaries:

Mrs. Walter C. Baylies	\$150.00	
Mrs. Shepherd Brooks	250.00	
Mrs. W. Scott Fitz	250.00	
Mrs. Charles E. Mason	250.00	
National Civic Federation	1,000.00	1,900.00

Amount carried forward, . . .

\$183,932.97

Amount brought forward, . . .		\$183,932.97
Medical School (<i>continued</i>):		
The Cancer Commission of Harvard University:		
Present use:		
“ A Friend ”		1,840.00
Salaries:		
Anonymous	\$250.00	
Anonymous	1,000.00	
Miss Emily Dutton Proctor	1,000.00	
Redfield Proctor	1,000.00	3,250.00
To be expended under the direction of the social service worker:		
Franklin W. Moulton		120.00
Collis P. Huntington Memorial Hospital:		
Current Expenses:		
Andrew Adie	\$100.00	
Miss Anna Agassiz	50.00	
George R. Agassiz	250.00	
Rodolphe L. Agassiz	25.00	
Mrs. Leonard D. Ahl	50.00	
Miss Martha A. Alford	100.00	
Anonymous	1,000.00	
Anonymous	25.00	
Anonymous	25.00	
Edwin F. Atkins	50.00	
Charles F. Ayer	50.00	
Miss Ellen S. Bacon	50.00	
Nelson S. Bartlett	25.00	
Mrs. John W. Bartol	25.00	
Mrs. Walter C. Baylies	200.00	
Mrs. Junius Beebe	25.00	
Frank B. Bemis	100.00	
William Sturgis Bigelow	200.00	
Charles Sumner Bird	25.00	
George Nixon Black	100.00	
Mrs. Arthur W. Blake	20.00	
Mrs. Francis Blake	20.00	
Mrs. Edward D. Brandegee	100.00	
Miss Sarah F. Bremer	50.00	
Shepherd Brooks	50.00	
Miss Katherine E. Bullard	100.00	
Amounts carried forward, . . .	\$2,815.00	\$189,142.97

Amounts brought forward, . . \$2,815.00 \$189,142.97

Medical School (*continued*):

Collis P. Huntington Memorial Hospital
(*continued*):

Current Expenses (*continued*):

Mrs. John A. Burnham	10.00
I. Tucker Burr	25.00
" E. S. C."	100.00
Mrs. Arthur Tracy Cabot	100.00
Arthur Astor Carey	3.00
James Richard Carter	25.00
Miss Georgina S. Cary	25.00
Miss Louise W. Case	25.00
P. Coggeshall Chase	25.00
Mrs. Theodore Chase	25.00
Committee of the Permanent Charity Fund Incorporated	250.00
Mrs. Costello C. Converse	500.00
T. Jefferson Coolidge	100.00
Charles E. Cotting	100.00
Miss Elizabeth A. Cotton	50.00
W. Murray Crane	200.00
Frederic Morton Crehore	25.00
Mrs. Francis B. Crowinshield	10.00
John S. Curtis	50.00
Mrs. Charles H. Dalton	30.00
Philip Y. De Normandie	25.00
Miss Hannah M. Edwards	50.00
John W. Farlow	25.00
Miss Fannie M. Faulkner	25.00
Miss Sarah M. Fay	100.00
Frederick P. Fish	50.00
Mrs. W. Scott Fitz	50.00
Thomas A. Forsyth	25.00
Henry C. Frick	250.00
Mrs. Louis A. Frothingham	250.00
Miss Harriet Gray	50.00
Mrs. Reginald Gray	100.00
Mrs. Henry S. Grew	50.00
Miss Ellen R. Hathaway	100.00
Horatio Hathaway, Jr.	25.00
Mrs. M. Graeme Haughton	100.00
Augustus Hemenway	100.00
Robert F. Herrick	100.00
Franklin W. Hobbs	25.00
Miss Julia W. Holt	50.00

Amounts carried forward, . . . \$6,043.00 \$189,142.97

Amounts brought forward, . . . \$6,043.00 \$189,142.97

Medical School (*continued*):

Collis P. Huntington Memorial Hospital
(*continued*):

Current Expenses (*continued*):

William Hooper	50.00
Henry Hornblower and Mrs. Horn- blower	100.00
Miss Elizabeth G. Houghton	25.00
Henry S. Howe	100.00
Mrs. Charles W. Hubbard	50.00
The Humane Society of the Common- wealth of Massachusetts	500.00
Henry S. Hunnewell	100.00
Walter Hunnewell	100.00
Miss Eulalie M. Iasigi	25.00
Mrs. Oscar Iasigi	50.00
Charles C. Jackson	100.00
Henry Jackson	20.00
Ellerton James	20.00
Edward C. Johnson	20.00
Mrs. Benjamin M. Jones	25.00
Mrs. Henry P. Kidder	10.00
Nathaniel T. Kidder	100.00
David P. Kimball	50.00
The Misses Kimball	25.00
Mrs. Henry P. King	200.00
Horatio A. Lamb	100.00
Thomas W. Lamont	250.00
Mrs. Gardiner M. Lane	50.00
Lawrence Model Lodging Houses . .	500.00
George C. Lee and Mrs. Lee	100.00
Mrs. William Caleb Loring	10.00
Mrs. Thornton K. Lothrop	25.00
James W. Maguire	25.00
Edward Mallinckrodt, Jr.	250.00
Mrs. Charles E. Mason	100.00
Miss Fanny P. Mason	25.00
Miss Ida M. Mason	50.00
Mrs. Daniel Merriman	25.00
Miss Annie W. Morrill	25.00
Miss Frances R. Morse	25.00
Mrs. Otis Norcross	50.00
William H. O'Connell	20.00
Mrs. Robert Treat Paine, 2d	25.00
William A. Paine	200.00

Amounts carried forward, . . . \$9,568.00 \$189,142.97

Amounts brought forward, . . . \$9,568.00 \$189,142.97

Medical School (*continued*):

Collis P. Huntington Memorial Hospital
(*continued*):

Current Expenses (*continued*):

Miss Eleanor S. Parker	25.00
George A. Peabody	500.00
James J. Phelan	50.00
Wallace L. Pierce	100.00
David Pingree	200.00
Alexander S. Porter	15.00
James M. Prendergast	25.00
Harry L. Rice	25.00
William L. Richardson	100.00
Alfred L. Ripley	50.00
Wallace F. Robinson	25.00
Miss Emma Rodman	25.00
Miss Annette P. Rogers	15.00
Mrs. Jacob C. Rogers	100.00
Miss Marian Russell	200.00
Mrs. Robert S. Russell	50.00
John L. Saltonstall	100.00
Richard M. Saltonstall and Mrs. Saltonstall	50.00
Robert Saltonstall	100.00
Mrs. Francis W. Sargent	25.00
Herbert M. Sears	100.00
Mrs. J. Montgomery Sears	100.00
Mrs. Knyvet W. Sears	100.00
Richard D. Sears	100.00
Henry S. Shaw	25.00
Mrs. Quincy A. Shaw	100.00
Miss Anna D. Slocum	25.00
John T. Spaulding }	100.00
William S. Spaulding }	
Francis P. Sprague	100.00
James A. Stillman	100.00
Galen L. Stone	250.00
Nathaniel H. Stone	100.00
Miss Abby M. Storer	25.00
Miss Mary G. Storer	25.00
Robert W. Storer	25.00
James J. Storrow	100.00
Miss Alice P. Tapley	100.00
Mrs. Ezra R. Thayer	15.00
Mrs. Nathaniel Thayer	50.00
Mrs. Washington B. Thomas	25.00

Amounts carried forward, . . . \$12,913.00 \$189,142.97

Amounts brought forward, . . \$12,913.00 \$189,142.97

Medical School (*continued*):

Collis P. Huntington Memorial Hospital
(*continued*):

Current expenses (*continued*):

"The Eugene Tompkins Memorial "	1,000.00	
Charles H. Traiser	25.00	
Henry O. Underwood	100.00	
Mrs. Alexander F. Wadsworth . .	25.00	
Eliot Wadsworth	100.00	
Grant Walker	50.00	
William B. Walker and Mrs. Walker.	50.00	
Mrs. Bayard Warren	100.00	
Miss Cornelia Warren	25.00	
J. Collins Warren	100.00	
Lucius H. Warren	25.00	
Frank G. Webster and Mrs. Webster	100.00	
Welfare Fund, through Charles A.		
Dean, Trustee	25.00	
William P. Wharton	100.00	
George R. White	500.00	
William Whitman	100.00	
Edward F. Whitney	100.00	
Frank Whitney	25.00	
Hugh Williams	100.00	
Mrs. Roger Wolcott	25.00	15,588.00

Observatory:

Draper Memorial:

Mary Anna Palmer Draper (Mrs. Henry Draper), Estate of . . .	4,000.00
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Publications:

Edward C. Pickering	73.31
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Peabody Museum of American Archaeology and
Ethnology:

Present use:

Clarence B. Moore	500.00
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Toward meeting the cost of opening the Mu-
seum on Sunday afternoons:

Roland B. Dixon	\$25.00	
Augustus Hemenway	50.00	
Robert W. Sayles	16.00	
Edward Wigglesworth	25.00	116.00

Amount carried forward, . . . \$209,420.28

GIFTS FOR IMMEDIATE USE

51

Amount brought forward, . . . \$209,420.28

Semitic Museum:

Present use:

Jacob H. Schiff 500.00

University:

Directory Office Equipment:

"A Friend" \$500.00
 Anonymous 1,000.00
 1,500.00

Retiring Allowances:

The Carnegie Foundation for the Advancement of Teaching 62,967.25

War Activities:

Alumni Association Fund:

Sundry subscriptions from alumni and friends of the University . 5,023.81

Museum of Comparative Zoölogy:

Present use:

Charles P. Bowditch \$100.00
 W. Cameron Forbes 150.00
 George Wigglesworth 100.00
 350.00

"In memory of my brother, Samuel Lockwood, I give and bequeath one thousand (\$1000) dollars to the Agassiz Museum of Zoölogy of Harvard University, . . .":

Thomas S. Lockwood, Estate of, . . . 1,000.00

"for instruction of teachers in the Agassiz Museum."

Solon F. Whitney, Estate of, . . . 200.00

Total, \$280,961.34

SCHEDULE 1

SPECIAL INVESTMENTS

June 30, 1919

UNIVERSITY		Principal.	Net Income.
J. Arthur Beebe,			
Real Estate, Falmouth,		\$31,900.00	.....
Charlotte F. Blanchard,			
University Houses and Lands,		4,771.83	173.07
Martin Brimmer,			
Real Estate, Cambridge,		50,000.00	670.00
John W. Carter,			
University Houses and Lands,		12,500.00	452.98
John Cowdin (part),			
University Houses and Lands,		32,607.04	1,181.00
George B. Dorr,			
University Houses and Lands,		115,966.56	4,199.45
George Draper,			
University Houses and Lands,		48,458.50	1,754.98
Robert H. Eddy,			
University Houses and Lands,		56,787.00	2,056.56
Richard W. Foster,			
Real Estate, Cambridge,		20,918.57	280.31
John Davis Williams French,			
University Houses and Lands,		5,322.09	193.01
Christopher Gore,			
Real Estate, Cambridge,		20,571.18	275.65
John C. Gray,			
University Houses and Lands,		25,000.00	905.55
Walter Hastings,			
Real Estate, Sacramento St., Cambridge,		20,000.00	763.31
Henry L. Higginson,			
University Houses and Lands,		29,676.55	1,074.95
Real Estate, Cambridge,		70,823.45	1,011.30
Insurance and Guaranty,			
Real Estate, Lucas St., Boston,		4,000.00	.....
Leonard Jarvis,			
University Houses and Lands,		16,871.63	611.23
Henry P. Kidder,			
Real Estate, Cambridge,		10,000.00	124.00

Amounts carried forward,	\$575,673.90	\$15,737.30
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	Principal.	Net Income.
Amounts brought forward,	\$575,673.90	\$15,737.80
Joseph Lee,		
University Houses and Lands,	10,000.00	362.40
Israel Munson,		
University Houses and Lands,	15,750.00	570.61
Francis E. Parker,		
University Houses and Lands,	118,817.44	4,121.63
Henry L. Pierce (Residuary) (part),		
Equipment at Memorial Hall,	152,098.14	6,844.42
Henry Villard,		
University Houses and Lands,	50,000.00	1,810.80
William F. Weld,		
University Houses and Lands,	100,000.00	3,621.80
Caroline M. Barnard Bequest (part),		
\$1,000 City Real Estate Trustees,	800.00	50.00
7 shares United Zinc Co., preferred,	70.00	.....
Harvard Endowment Fund (part),		
\$1,000 U. S. A. 1st Liberty Loan 3½'s,	1,000.00	35.00
20,000 U. S. A. 2d Liberty Loan 4½'s,	20,000.00	850.00
1,000 U. S. A. 3d Liberty Loan 4½'s,	1,000.00	36.15
Richard Black Sewall, Bequest,		
75 shares American Sugar Refining Co., . . .	9,900.00	.....
500 " American Tel. & Tel. Co.,	53,000.00	.....
148 " Atchison, Topeka & Santa Fe R. R., . . .	18,024.00	.....
25 " Bausch Machine Tool Co.,	625.00	25.00
90 " Boston Elevated Ry. Co.,	6,570.00	.....
32 " Central States Electric Corp., pfd., . .	1,920.00	112.00
24 " Central States Electric Corp., com., . .	360.00	.....
20 " Clifton Manufacturing Co.,	2,600.00	.....
5 " Columbus Manufacturing Co.,	810.00	80.00
25 " Congress Street Building Trust, . . .	750.00	.....
25 " Cornell Mills,	4,375.00	.....
12 " Fisher Body Corporation, common, . .	1,092.00	.....
50 " Galveston-Houston Electric Co., pfd., . .	3,250.00	.....
8 " Galveston-Houston Electric Co., com., . .	128.00	.....
50 " Investors Securities Corp., preferred, . .	4,500.00	75.00
10 " Investors Securities Corp., common, . .	400.00	.....
25 " Japanese Tissue Mills, preferred, . . .	2,500.00	43.75
125 " Massachusetts Electric Co., preferred, . .	2,960.63	.....
50 " Massachusetts Gas Co., preferred, . . .	4,000.00	100.00
25 " Metropolitan Associates, preferred, . .	450.00	.....
4 " National Sugar Refining Co.,	380.00	14.00
27 " Old Colony R. R. Co.,	2,592.00	.....
25 " Pemberton Building Trust,	875.00	.....
91 " Pennsylvania R. R.,	4,186.00	.....
25 " Real Estate Improvement Trust, . . .	625.00	87.50
27 " Tide Water Oil Co.,	5,670.00	126.00
Amounts carried forward,	\$1,167,752.11	\$34,602.86

	Principal.	Net Income.
Amounts brought forward,	\$1,167,752.11	\$34,602.86
Richard Black Sewall, Bequest (continued).		
50 shares Torrington Co., preferred,	1,450.00	43.75
15 " Torrington Co., common,	960.00	.....
33 " Union Pacific R. R., preferred,	2,409.00	66.00
5 " Union Pacific R. R., common,	655.00	.....
78 " United Fruit Co.,	18,505.00	.....
150 " United Shoe Machinery Corp., pfd.,	4,050.00	.....
45 " United Shoe Machinery Corp., com.,	2,250.00	.....
51 " U. S. Light & Heat Corp., preferred,	153.00	.....
5 " U. S. Light & Heat Corp., common,	7.50	.....
25 " Utah Power & Light Co., preferred,	2,250.00	.....
75 " Western Real Estate Trustees,	8,625.00	262.50
75 " Western Union Telegraph Co.,	6,675.00	.....
10 " West Point Manufacturing Co.,	2,300.00	.....
\$5,000 Atlantic Coast Line R. R. 1st Con. M. 4's of 1952,	4,100.00	.....
5,000 Birmingham Ry. Light & Power Co. Ref. & Ext. 6's of 1957,	3,925.00	.....
2,000 Cedar Rapids Mfg. & Power Co. 1st 5's of 1953,	1,740.00	.....
5,000 Columbus Manufacturing Co. 1st 5's of 1929,	4,900.00	.....
5,000 Concord & Montreal R. R. 1st 4's of 1920,	4,800.00	.....
5,000 Chicago, Indiana & Southern R. R. 4's of 1956,	4,000.00	.....
2,000 Denver & Rio Grande R. R. 1st & Ref. 5's of 1955,	1,120.00	.....
2,000 Federal Wharf & Storage Co. 1st 5's of 1912 (Certificate of Deposit),	1,200.00	.....
5,000 Florida West Shore Ry. Co. 1st 5's of 1934,	3,600.00	.....
5,000 Fort Smith Light & Traction Co. 1st 5's of 1936,	3,500.00	.....
5,000 Galveston Electric Co. 1st 5's of 1940,	3,900.00	.....
2,000 Idaho Power Co. 1st 5's of 1947,	1,720.00	.....
2,000 Imperial Russian Govt. 5½'s of 1921,	940.00	.....
5,000 Kansas City Terminal Ry. Co. 1st 4's of 1960,	3,950.00	.....
5,000 Louisville & Nashville Terminal 1st 4's of 1952,	3,550.00	.....
2,000 New England Co. Deb. 6's of 1925,	1,840.00	.....
7,000 Oregon R. R. & Navigation Co. Con. M. 4's of 1946,	5,740.00	.....
5,000 Peoples Gas Light & Coke Co. Ref. M. 5's of 1947,	3,700.00	.....
5,000 U. S. A. 2d Liberty Loan 4½'s,	4,700.00	.....
5,000 Wisconsin Edison Co. Inc. Deb. 6's of 1924,	4,450.00	.....
Amounts carried forward,	\$1,280,416.61	\$34,975.11

COLLEGE

	Principal.	Net Income.
Amounts brought forward,	\$1,280,416.61	\$34,975.11
Edward Atkinson Fund.		
88 shares American Tel. & Tel. Co.,	3,990.00	.....
50 " Canadian-Connecticut Cotton Mills Co.,	5,000.00	.....
50 " Marine Associates,	4,000.00	.....
50 " Nonquitt Spinning Co.,	6,500.00	200.00
30 " Shawmut Steamship Co.,	3,000.00	.....
75 " West End Street Ry. Co., preferred,	3,937.50	.....
Daniel A. Buckley (part),		
Real Estate in Cambridge, Mass.,	65,558.47	.....
" " Deer Isle, Me.,	1.00	.....
Victor Emanuel Chapman Memorial Fellowship,		
\$5,000 American Tel. & Tel. Co. conv. 4½'s of 1933,	5,000.00	225.00
1,000 Baltimore & Ohio R.R. 3½'s of 1925,	1,000.00	35.00
1,000 City of Cambridge Bridge Loan 4's of 1921,	1,000.00	40.00
1,000 Fitchburg R.R. 4's of 1925,	1,000.00	40.00
2,000 Northern Pacific-Great Northern Rys. Joint 4's of 1921,	2,000.00	80.00
George Newhall Clark,		
100 shares St. Joseph R'y, Light, Heat & Power Co., preferred,	10,000.00	500.00
Class of 1888 (part),		
25 shares Hotel Realty Co.,	2,000.00	62.50
Class of 1889 (part),		
4 Shares Claverly Trust,	2,000.00	.....
500 University Building Co. 2d 6's of 1929,	500.00	30.00
Class of 1892,		
\$100,000 U. S. A. 1st Liberty Loan 3½'s,	100,000.00	3,500.00
Class of 1893,		
\$500 U. S. A. 1st Liberty Loan 3½'s,	474.84	17.50
25,000 U. S. A. 1st Liberty Loan 4's,	23,675.84	1,062.25
7,800 U. S. A. 2d Liberty Loan 4½'s,	7,401.84	381.44
14,650 U. S. A. 3d Liberty Loan 4½'s,	14,205.37	525.32
1,000 Phoenix Mutual Life Insurance Co. Policy (Matured and paid), . . . . .	.....	18.46
Class of 1894,		
\$1,050 U. S. A. 1st Liberty Loan 3½'s,	1,041.60	.....
50 U. S. A. 1st Liberty Loan 4's,	47.25	.....
4,600 U. S. A. 1st Liberty Loan 4½'s,	4,370.00	.....
100 U. S. A. 2d Liberty Loan 4's,	93.50	.....
6,950 U. S. A. 2d Liberty Loan 4½'s,	6,519.10	.....
11,050 U. S. A. 3d Liberty Loan 4½'s,	10,497.50	.....
26,000 U. S. A. 4th Liberty Loan 4½'s,	24,440.00	.....
6,250 U. S. A. 5th Victory Loan 4½'s,	6,243.75	.....
Edward W. Codman (part),		
75 shares Pacific Mills,	4,560.00	1,050.00
10 " Barristers Hall Trust,	710.20	22.50
Amounts carried forward,	\$1,601,184.37	\$42,715.08

	Principal.	Net Income.
Amounts brought forward,	\$1,601,184.87	\$42,715.08
Edward Erwin Coolidge,		
200 shares U. S. Smelting, Ref. & Mining Co., pref'd,	9,000.00	700.00
Charles Dexter Memorial.		
10 shares Baltimore & Ohio R. R. common, . . .	477.50	.....
3 " Baltimore & Ohio R. R. preferred, . .	165.00	.....
1 " Farmers & Shippers Leaf Tobacco Ware-		
house Co. 2d preferred,	5.00	.....
100 " New York Central R. R.,	8,000.00	.....
130 " Pennsylvania R. R.,	5,720.00	97.50
75 " U. S. Steel Corporation, preferred, . .	8,737.50	131.25
\$4,000 New York Central R. R. 20 yr. conv. 6's of		
1935,	3,900.00	120.00
Alexis Irenée Du Pont Fund,		
\$100,000 Anglo-French Ext. Loan 5's of 1920, . .	93,000.00	5,000.00
Eliot Professorship (Jonathan Phillips's Gift),		
\$10,000 City of Boston 3½'s of 1920,	10,000.00	350.00
William Everett Fund,		
10 shares Chicago & Northwestern R. R.,	930.00	69.60
10 " General Electric Co.,	1,439.80	79.60
10 " Great Northern R. R. pref'd,	920.00	69.60
18 " Pennsylvania,	792.00	53.64
Edwin William Friend Memorial Fund,		
\$500 United Light & Railways Co. 6's Gold Notes		
of 1920,	500.00	30.00
Charles W. Hubbard Fund,		
\$10,000 U. S. Steel Corp. S. F. 5's of 1963, . . .	10,000.00	500.00
Professorship of Hygiene (part),		
Policy of Mass. Hospital Life Insurance Co., . .	5,000.00	225.00
Franklin Temple Ingraham Memorial.		
30 shares Duquesne Light Co., preferred,	2,760.00	156.30
50 " Nassau Light & Power Co.,	5,250.00	397.00
40 " Pennsylvania R. R.,	1,760.00	69.66
\$10,000 U. S. of America 4th Liberty Loan 4½'s, . .	9,560.00	202.00
George H. Leatherbee Lecture Fund,		
\$5,000 Ames Plow Co., 1st M. 5's of 1932,	Sold during yr.	273.61
Morris Loeb Bequest (part),		
Mortgage Notes,	152,000.00	2,400.00
400 shares American Tel. & Tel. Co.,	48,105.04	3,200.00
200 " Amoskeag Manufacturing Co., preferred,	19,800.00	900.00
12 " Boston Real Estate Trust,	13,320.00	480.00
500 " Congress Street Associates,	48,750.00	1,500.00
200 " Edison Electric Illuminating Co. of Boston,	51,800.00	2,400.00
500 " Massachusetts Gas Co., preferred,	47,500.00	2,000.00
500 " Trimountain Trust,	50,000.00	2,250.00
250 " Western Real Estate Trust,	33,750.00	1,750.00
400 " Western Union Telegraph Co.,	25,317.00	2,800.00
Amounts carried forward,	\$2,269,448.21	\$70,919.84

	Principal.	Net Income.
Amounts brought forward,	\$2,269,448.21	\$70,919.84
Emily H. Moir Bequest (part),		
4 shares Emily H. Moir Estate, Inc.,	1.00	.....
University Houses and Lands,	32,000.00	1,159.02
Charles Eliot Norton Fellowship,		
\$15,000 Northern Pacific—Great Northern Joint 4's (C. B. & Q. collateral) of 1921,	14,100.00	600.00
5,000 Louisville & Nashville Unified M. 4's of 1940,	5,000.00	200.00
John Knowles Paine Fellowships in Music,		
Mortgage Notes,	28,000.00	1,312.50
George Foster Peabody Scholarship,		
\$6,000 Mexican Coal & Coke Co. 1st M., S. F. 5's of 1926,	4,800.00	.....
Stanley Bagg Pennock Scholarship,		
100 shares Pennsylvania,	5,000.00	300.00
William Reed Scholarship,		
\$1,000 New York Central & H. R. Gold 3½'s of 1927,	1,000.00	35.00
Nelson Robinson Jr. Additional (part),		
1,750 shares Gauley Coal Land Co., preferred,	175,000.00	.....
Elisa O. and Mary P. Ropes (part),		
100 shares Chicago, Milwaukee & St. Paul,	13,071.88	.....
100 " Northern Pacific,	11,986.50	700.00
220 " Pennsylvania,	12,888.50	660.00
Josiah Royce Memorial Fund,		
\$100 U. S. of America 2d Liberty Loan 4½'s of 1942,	100.00	4.25
350 U. S. of America 3d Liberty Loan 4½'s of 1928,	349.48	10.40
Dunlap Smith Scholarship,		
\$5,000 Metropolitan West Side Elevated R. R. Ex- tension M. 4's of 1938,	4,700.00	200.00
Henry Baldwin Stone Memorial,		
\$66,000 Mississippi River Power Co. 1st M. 5's of 1951,	58,460.00	3,800.00
Stoughton Scholarship (part),		
Real Estate in Dorchester,	283.42	.....
Teachers' Endowment (part),		
50 shares Broadway Realty Co., preferred,	5,000.00	475.00
50,000 Wisconsin Central, Minneapolis Terminal Purchase Money M. 3½'s of 1950,	50,000.00	1,750.00
Lee Wade II Prize Fund,		
\$1,000 School District of the Borough of Olyphant 5's of 1948,	1,000.00	50.00
Samuel Ward's Gift (part),		
Ward's (Bumkin) Island, Boston Harbor,	1.00	.....
Gordon Wendell (part),		
\$2,000 Chicago, Burl. & Quincy R. R. (Ill. Div.) 4's of 1949	2,000.00	80.00
Alfred Tredway White Endowment.		
500 shares American Tel. & Tel. Co.,	50,000.00	990.00
Amounts carried forward,	\$2,739,184.99	\$82,746.01

	Principal	Net Income.
Amounts brought forward, . . .	\$2,739,184.99	\$82,746.01
Wallace C. Sabine Memorial.		
\$12,000 U. S. A. 2d Liberty Loan 4½'s,	12,000.00	.....
17,000 U. S. A. 3d Liberty Loan 4½'s,	17,000.00	.....
18,000 U. S. A. 4th Liberty Loan 4½'s,	18,000.00	.....
50,000 U. S. A. Victory Loan 4½'s,	50,000.00	.....

LIBRARY

Anonymous Library Fund,		
200 shares Washington Water Power Co.,	25,000.00	800.00
Edwin Swift Balch, Class of 1878 Fund,		
\$3,000 U. S. A. 3d Liberty Loan 4½'s,	3,000.00	108.45
2,000 U. S. A. 2d Liberty Loan 4's,	2,000.00	80.74
William R. Castle Fund,		
\$1,000 Digamma Club 4½'s of 1926,	900.00	45.00
Peter P. F. Degrand Fund,		
50 shares Trimountain Trust,	4,500.00	225.00
Francis Parkman Memorial (part),		
\$5,000 Louisville & Jeffersonville Bridge 1st M. Gold 4's of 1945,	4,500.00	200.00
John Harvey Treat (part),		
180 Shares Treat Hardware Supply Co.,	1,800.00	.....
Ichabod Tucker (part),		
Policy of Mass. Hospital Life Insurance Co., . . .	5,000.00	225.00

LAW SCHOOL

James and Augusta Barnard Law Fund,		
60 shares American Tel. & Tel. Co.,	7,230.76	480.00
17 " Boston & Albany R. R. Co.,	3,060.00	148.75
\$4,000 Kansas City Elevated R'y Gen. M. 4's of 1922, .	2,800.00	.....
70 shares Massachusetts Electric Co., preferred, .	5,263.36	.....
15 " Worcester Consolidated Street Ry. Co., 1st preferred,	1,830.50	.....
William Cheney Brown, Jr. Scholarship.		
\$500 U. S. A. 2d Liberty Loan 4's,	500.00	10.00
2000 U. S. A. 3d Liberty Loan 4½'s,	2,000.00	.....
Robert Darrah Jenks Scholarship.		
\$1000 U. S. A. 2d Liberty Loan 4½'s,	1,000.00	21.80
500 U. S. A. 3d Liberty Loan 4½'s,	500.00	10.62
500 U. S. A. 4th Liberty Loan 4½'s,	500.00	10.10
Law School Endowment,		
\$50 U. S. of America 1st Liberty Loan 3½'s of 1947, .	50.00	1.75
Joshua Montgomery Sears, Jr. Memorial (part).		
\$10,000 Minneapolis General Electric Gold M. 5's of 1934,	10,000.00	500.00
10,000 New England R. R. Consol. M. 5's of 1945, .	10,000.00	500.00
Amounts carried forward,	\$2,926,619.61	\$86,112.72

MEDICAL SCHOOL

	Principal.	Net Income.
Amounts brought forward,	\$3,926,619.61	\$86,112.72
Gordon Bartlett Scholarship.		
\$10,000 U. S. A. 3d Liberty Loan 4½'s,	10,000.00	212.48
Robert Charles Billings (part),		
Real Estate, Wigglesworth St. & Power House,		
Vila St., Boston (part),	100,000.00	5,000.00
John B. and Buckminster Brown Endowment,		
52 shares Pennsylvania R. R.,	2,600.00	156.00
John White Browne Scholarship,		
\$3,000 American Tel. & Tel. 4's of 1929,	2,475.00	120.00
2,000 Commonwealth Edison Co. 5's of 1943, . . .	1,840.00	100.00
3,000 Great Britain & Ireland 5½% Notes of 1919, .	2,857.50	165.00
5,000 Oregon Short Line R. R. 4's of 1929, . . .	4,200.00	300.00
4,000 Sierra & San Francisco Power Co. 5's of 1949,	3,000.00	200.00
1,000 Texas Power & Light Co. 5's of 1937, . . .	840.00	75.00
3,000 Wisconsin-Minnesota Light & Power Co. 5's		
of 1944,	2,460.00	150.00
John C. Cutter Bequest,		
\$6,250 Carthage Water Power Co., 1st M. 5% Notes,	1.00	.....
Dr. Henry Isaiah Dorr Chair of Research		
and Teaching,		
\$5,000 Boston Elevated Ry. 5's of 1942,	5,000.00	250.00
10,000 Chicago, Burlington & Quincy R.R. 3½'s of		
1949,	10,000.00	350.00
5,000 Dominion of Canada 5's of 1937,	5,000.00	250.00
10,000 Illinois Central R.R. 3½'s of 1953,	10,000.00	350.00
5,000 Lake Shore & Michigan Southern R.R. 3½'s		
of 1997,	5,000.00	175.00
5,000 Lake Shore & Michigan Southern R.R. 4's		
of 1931,	5,000.00	200.00
4,000 Lynn & Boston R. R. 5's of 1924,	4,000.00	.....
5,000 Michigan State Tel. Co. 5's of 1924, . . .	5,000.00	250.00
5,000 N. Y. C. & H. R. R. R. 3½'s of 1997, . . .	5,000.00	175.00
20,000 New York, New Haven & Hartford R. R. 4's		
of 1956,	20,000.00	800.00
4,000 Oregon Short Line R. R. 4's of 1929, . . .	4,000.00	160.00
20,000 Pennsylvania R. R. 4½'s of 1965,	20,000.00	900.00
2,000 Western Union Tel. Co. 4½'s of 1950, . . .	2,000.00	90.00
Calvin and Lucy Ellis (part),		
\$40,000 Northern Pacific-Great Northern Joint 4's		
(C. B. & Q. collateral) of 1921,	26,585.00	1,600.00
Real Estate, Wigglesworth St. and Power House,		
Vila St., Boston (part),	349,052.32	19,322.93
Flattery Research Fund,		
100 shares Loews Theatrical Enterprises,	11,800.00	800.00
Amounts carried forward,	\$3,544,330.43	\$118,264.13

	Principal.	Net Income.
Amounts brought forward, . . .	\$3,544,830.43	\$118,264.13
M. Douglas Flattery Prize Fund,		
750 shares Old Colony Woolen Mills Co., p'fd, .	7,500.00	525.00
Harvard Medical Alumni Fund,		
\$2,000 U. S. of America 4th Liberty Loan 4½'s, . . .	1,902.80	.....
George Haven Bequest (part),		
12 shares Barristers Hall Trust,	924.00	27.00
Julia M. Moseley Fund,		
\$15,000 Massachusetts 3½'s of 1939,	13,950.00	525.00
10,000 Massachusetts 3½'s of 1939,	9,300.00	350.00
George C. Shattuck (1853),		
\$25,000 Chicago, Milwaukee & St. Paul R. R. Conv.		
4½'s of 1932,	25,000.00	1,125.00
Francis Skinner (part),		
16 shares Worcester Consolidated Street Ry.,		
1st preferred,	640.64	.....
Morrill Wyman Medical Research Fund (part),		
\$200 Colonial Club 5's of 1922,	140.00	15.00
10 shares Delaware & Hudson Co.,	1,500.00	90.00
58 " Fitchburg R. R. Co., preferred,	4,176.00	290.00
36 " Illinois Central R. R. Co.,	3,888.00	252.00
22 " Maine Central R. R. Co.,	2,200.00	132.00
1 share Old Colony R. R. Co.,	138.00	7.00
16 shares Pennsylvania R. R. Co.,	928.00	48.00
Division of Industrial Hygiene,		
\$10,000 American Agricultural Chemical Co. 5's of		
1924,	10,000.00	500.00
20,000 Illinois Steel Co. Deb. 4½'s of 1940, . . .	20,000.00	900.00
100 shares W. H. McIlwain Co., 1st preferred,	9,000.00	596.00
100 " Union Pacific R. R.,	12,000.00	746.00
DENTAL SCHOOL		
Maria Antoinette Evans Fund.		
73 shares Alaska Building Trust,	7,300.00	91.25
MUSEUM OF COMPARATIVE ZOOLOGY		
Alexander Agassiz Bequest, Clause XI,		
Real Estate in Cambridge,	40,000.00	.....
OBSERVATORY		
Advancement of Astronomical Science (1902),		
15 shares Calumet & Hecla Mining Co.,	9,000.00	450.00
PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY		
Peabody Building (part), } \$54,000 Kansas & Mis-	11,512.72	623.32
Peabody Collection (part), } souri R. R. 1st M. 5's	19,218.64	1,038.84
Peabody Professor (part), } of 1922,	19,218.64	1,038.84
Thaw (part) (\$8.83 deducted from income for sinking		
premium),		
\$20,000 Girard Point Storage Co. 1st M. 3½'s of 1940,	20,176.58	691.17
Amounts carried forward, . . .	\$3,793,939.45	\$128,324.55

ARNOLD ARBORETUM

	Principal.	Net Income.
Amounts brought forward, . . .	\$3,793,939.45	\$128,324.55
Arnold Arboretum Endowment.		
\$2000 U. S. A. 4th Liberty Loan 4½'s,	1,898.40	.....
Robert Charles Billings,		
\$5,000 Butte Water Co. 1st M. 5's of 1921,	4,000.00	250.00
Maria Antoinette Evans Fund.		
73 shares Alaska Building Trust,	7,300.00	91.25
Bayard & Ruth S. Thayer Fund,		
\$5,000 U. S. of America 3½'s 1st Liberty Loan, . .	5,000.00	175.00

BUSSEY INSTITUTION

Woodland Hill,		
Laboratory of Comparative Pathology building, .	20,658.86	1,000.00
Mrs. William H. Bliss Fund,		
\$50,000 New York & New Jersey 5's of 1932, . .	50,000.00	2,500.00

SPECIAL FUNDS

Anonymous,		
\$20,000 Massachusetts 3's of 1930,	20,000.00	600.00
19,000 " " 1941,	19,000.00	570.00
189 shares Edison Electric Illum. Co. of Boston, .	52,451.98	2,268.00
Anonymous Fund No. 2,		
52 shares Massachusetts Gas Co.,	4,758.00	364.00
76 " Puget Sound Traction, Light, & Power		
Co., preferred,	7,600.00	.....
100 " Puget Sound Traction, Light, & Power		
Co., common,	5,200.00	.....
17 " United Fruit Co.,	2,686.00	153.00
Bussey Trust (part),		
Real Estate in Boston,	365,978.05	22,984.14
Fund of the Class of 1834,		
Policy of Mass. Hospital Life Insurance Co., . . .	1,000.00	45.00
Fund of the Class of 1844,		
Policy of Mass. Hospital Life Insurance Co., . . .	6,500.00	292.50
Fund of the Class of 1853,		
Policy of Mass. Hospital Life Insurance Co., . . .	3,725.00	167.63
Fund of the Class of 1857,		
\$5,000 Kansas City, Fort Scott & Memphis 6's of 1928,	5,000.00	300.00
Freshman Halls,		
Real Estate in Cambridge,	99,672.60	636.47
Francis Lee Higginson,		
\$10,000 Consolidation Coal Co. 5's of 1950, . . .	10,000.00	500.00
10,000 Cudahy Packing Co., 5's of 1946,	10,000.00	500.00
10,000 Galveston, Harrisburg & San Antonio 6's		
of 1931,	10,000.00	500.00
10,000 Great Britain and Ireland 5½'s of 1919, .	10,000.00	550.00
10,000 Interborough Rapid Transit 5's of 1966, .	10,000.00	500.00
50,000 Kansas City, Memphis & B'ham 5's of 1934,	40,000.00	2,500.00
Amounts carried forward, . . .	\$4,566,368.34	\$165,761.54

	Principal.	Net Income.
Amounts brought forward, . . .	\$4,566,868.84	\$165,761.54
Price Greenleaf. (\$388.33 deducted from income for sinking premiums.) The total amount of this Fund is \$790,565.48, invested as follows:		
\$70,000 Broadway Realty Co. Purchase money		
1st M. 5's of 1926,	71,274.00	3,389.00
48,500 Central Vermont R'y 1st M. 4's of 1920, .	37,845.00	1,740.00
1,000 Chicago, Burl. & Quincy R. R. 4's of 1922 (sold during year),		20.00
50,000 Chicago Junction Railways & Union Stock Yards Coll. Trust 5's of 1940,	49,875.00	2,500.00
20,000 Cleveland R'y Ref. M. 5's of 1931, . . .	20,000.00	1,000.00
61,000 Colorado Power Co. 5's of 1953,	52,960.00	3,100.00
30,000 Commonwealth Power Co. 1st M. 5's of 1924,	29,850.00	1,500.00
35,000 Galveston Electric Co. 1st M. 5's of 1940,	32,900.00	1,750.00
55,000 Great Lakes Power Co. 1st M. 6's of 1932,	52,250.00	3,061.67
8,000 Kansas City, Fort Scott & Memphis Cons. M. 6's of 1928,	8,618.59	402.68
50,000 New England Tel. & Tel. Co. 5's of 1932,	50,000.00	2,500.00
34,000 New York Central & Hudson River R. R. (Michigan Central Collateral) 3½'s of 1998,	28,412.10	1,190.00
3,000 New York Railways Co. 1st R. E. & Ref. M. 4's of 1942,	2,373.94	120.00
18,000 New York Railways Co. Adj. M. 5's of 1942,	9,453.39	.....
82,000 Northern Pacific-Great Northern Joint 4's (C. B. & Q. collateral) of 1921,	19,993.55	1,280.00
50,000 Union Pacific R.R. 1st M. & L.G. 4's of 1947,	44,625.00	2,000.00
360 shares Boston & Lowell R. R.,	46,800.00	2,880.00
237 " Fitchburg R. R., preferred,	22,306.27	1,185.00
61 " Great Northern, preferred,	13,445.31	427.00
40 " Great Northern Iron Ore Properties, .	.....	160.00
355 " Old Colony R. R.,	63,190.00	2,485.00
18 " N. Y. Central & Hudson River R. R., .	1,380.00	65.00
290 " Northern R. R. (N. H.),	29,290.00	1,740.00
52 " West End Street Railway, preferred, .	4,305.56	208.00
34 " Central Vermont R'y,	428.72	.....
855 " Pennsylvania R. R.,	59,256.04	2,565.00
21 " Boston Real Estate Trust,	27,483.25	840.00
100 " Paddock Building Trust,	10,000.00	250.00
Cash in American Trust Co.,	2,749.76	47.07
Charles L. Hancock Bequest (part),		
Real Estate in Chicago,	65,000.00	4,398.62
Gordon McKay Endowment (part),		
\$120,000 American Tel. & Tel. 4's of 1929,	114,000.00	4,800.00
20,000 Edison Electric Ill. Co. 2 yr. 6% Gold Notes of 1919,	19,825.00	1,200.00
15,000 General Electric Co. 3 yr. 6% Gold Notes of 1920,	15,487.50	900.00
Amounts carried forward, . . .	\$5,571,246.82	\$215,375.58

	Principal.	Net Income.
Amounts brought forward, . . .	\$5,571,246.32	\$215,375.58
Gordon McKay Endowment (continued).		
\$10,000 General Electric Co. 2 yr. 6% Gold Notes of 1919 (sold during year), . . . . .	.....	241.67
100,000 Kanawha & Michigan 5's of 1927,	95,500.00	5,000.00
12,200 Kansas City Light & Power Co. 6's of 1944,	12,213.00	732.00
22,700 Kansas City Railways Co. 6's of 1944,	22,713.00	1,362.00
80,000 New York, N. H. & H. Deb. 4's of 1955,	78,800.00	3,200.00
12,000 Puget Sound Electric 5's of 1932,	11,760.00	600.00
10,000 U. K. of Great Britain & Ireland 5½'s of 1919 (sold during year), . . . . .	.....	539.17
860 shares American Tel. & Tel. Co.,	110,090.84	6,880.00
300 " Great Northern,	42,713.37	2,100.00
240 " Northern Pacific,	35,400.00	1,680.00
165 " Pennsylvania,	10,800.75	495.00
Robert Troup Paine (accumulating),		
\$8,000 Massachusetts 3½'s of 1928,	7,596.00	280.00
38,000 " " 1935,	36,951.78	1,330.00
2,000 " " 1936,	1,885.00	70.00
31,000 " " 1938,	29,612.28	1,085.00
Frederick Sheldon (part),		
29 shares Mexican Telegraph Co.,	3,900.29	290.00
100/15000th Trust Estate Hastings & Dak. Ry. Co.,	300.00	50.00
George Smith Bequest (part),		
\$10,000 Duquoin, Ill., Water Works Co. 6's of 1901,	1.00	.....
	<u>\$6,071,483.63</u>	<u>\$241,310.42</u>
SUMMARY:		
Cash, Exhibit A,	\$2,749.76	
Securities, Exhibit A,	3,913,188.67	
Land and Buildings, Exhibit A,	2,155,545.20	
Interest and Dividends, Exhibit B,		153,740.78
Rents, Land and Buildings, Exhibit B,		87,569.64
	<u>\$6,071,483.63</u>	<u>\$241,310.42</u>

SCHEDULE 2

SECURITIES—GENERAL INVESTMENTS

June 30, 1919

Mortgages and Other Loans.	Principal.	Income.
Mortgages,	\$413,500.00	
Advances to Bussey Trust,	301,499.08	
American Woolen Co.,	100,000.00	
Arlington Mills,	100,000.00	
Boston Woven Hose & Rubber Co.,	100,000.00	
Everett Mills,	100,000.00	
Harmony Mills,	50,000.00	
Newburyport Gas & Electric Co.,	65,000.00	
Pacific Mills,	200,000.00	
Saco-Lowell Shops,	50,000.00	
Geo. A. Sawyer, Trustee,	1,000.00	
Sharp Manufacturing Co.,	50,000.00	
Turners Falls Power & Electric Co.,	50,000.00	
York Manufacturing Co.,	50,000.00	
	<u>\$1,680,999.08</u>	<u>\$77,351.45</u>
Public Funds.		
\$50,000 Dominion of Canada 2 y'r 5% Notes, . .	\$48,375.00	\$1,506.94
100,000 Government of French Republic 5½%		
Notes of April, 1919 (sold during year),		5,674.38
100,000 Great Britain & Ireland 5½'s of 1921, . .	98,500.00	5,500.00
30,000 U. S. A. 1st Liberty Loan 3½'s,	29,988.00	1,050.00
93,000 U. S. A. 2d Liberty Loan 4½'s,	92,880.00	3,952.50
100,000 U. S. A. 3d Liberty Loan 4½'s,	100,000.00	2,835.26
150,000 U. S. A. 4th Liberty Loan 4½'s,	150,000.00	1,926.51
50,000 U. S. A. 5th Victory Loan 4½'s,	50,000.00	.....
94,000 United States of Mexico 4's of 1954, . .	87,250.00	.....
	<u>\$656,993.00</u>	<u>\$22,445.59</u>
Railroad Bonds.		
\$100,000 Baltimore & Ohio 1st M. 4's of 1948, . .	\$96,625.00	\$4,000.00
21,000 Baltimore & Ohio Conv. 4½'s of 1933, . .	20,058.30	945.00
100,000 B. & O. (S. W. Div.) 1st M. 3½'s of 1925, . .	89,750.00	3,500.00
100,000 Baltimore & Ohio (Pittsburg, Lake Erie & West Virginia) Ref. M. 4's of 1941, . .	99,250.00	4,000.00
125,000 Bangor & Aroostook Cons. Ref. M. 4's of 1951,	118,750.00	5,000.00
100,000 Boston & Albany, Ref. M. 5's of 1963, . .	102,046.40	4,952.40
544,000 Chicago, Burl. & Quincy 3½'s of 1949, . .	536,570.49	19,040.00
150,000 " " Gen. M. 4's of 1958,	145,250.00	6,000.00
40,400 Chicago, Milwaukee & St. Paul Conv. 4½'s of 1932,	40,426.00	1,815.82
23,900 Chicago, Milwaukee & St. Paul Conv. 5's of 2014,	23,900.00	1,195.00
Amounts carried forward, . . .	<u>\$1,272,626.19</u>	<u>\$50,448.22</u>

	Principal.	Income.
Amounts brought forward, . . .	\$1,272,626.19	\$50,448.22
Railroad Bonds (continued).		
\$100,000 Chicago & No. Western Gen. M. 3½'s of 1987,	100,804.70	3,487.90
50,000 Chicago & Western Indiana 6's of 1919,	49,375.00	3,000.00
100,000 Chicago, Rock Island & Pacific Gen. M. 4's of 1988,	105,416.12	3,920.36
184,000 Duluth, Missabe & Northern General M. 5's of 1941,	193,528.00	8,746.30
100,000 Galveston, Harrisburg & San Antonio, Mex. & Pac. Ext. 5's,	99,250.00	5,000.00
100,000 Hocking Valley R. R., 6's of 1924,	98,250.00	.....
100,000 Illinois Central R'y and Chicago, St. Louis, & New Orleans R'y Joint 1st Ref. M. 5's of 1963,	98,750.00	5,000.00
100,000 Indiana, Ill. & Iowa 1st M. 4's of 1950,	96,500.00	4,000.00
100,000 Indianapolis Union R'y Gen. & Ref. M. 5's of 1965,	99,250.00	5,000.00
225,000 Kansas City, Fort Scott & Memphis Cons. M. 6's of 1928,	243,501.13	11,187.36
134,000 Kansas City, Memphis & Birmingham (assented) Income 5's of 1934,	120,300.00	6,700.00
364,000 Kansas City Terminal R'y 1st M. Gold 4's of 1960,	298,975.00	14,560.00
100,000 Lake Shore & Michigan Southern Deb. 4's of 1931,	93,250.00	4,000.00
300,000 Long Island Unified M. 4's of 1949,	283,257.50	12,000.00
200,000 Louisville & Jeffersonville Bridge Co. 1st M. 4's of 1945,	191,000.00	8,000.00
100,000 Minneapolis Union 1st M. 5's of 1922,	100,310.70	4,844.64
100,000 Montana Central 1st M. 6's of 1937,	120,313.90	4,805.04
100,000 New Orleans, Texas & Mexico 6's of 1925,	99,000.00	6,000.00
133,000 New York Central Conv. Deb. 6's of 1935,	130,600.00	7,980.00
300,000 New York Central 4's of 1998,	294,464.40	12,000.00
100,000 New York, Lake Erie, & Western Docks & Improvement Co. 1st M. 5's of 1943,	100,000.00	5,000.00
25,000 New York, New Haven & Hartford Convertible Deb. 6's of 1948,	25,000.00	1,500.00
100,000 New York, New Haven & Hartford Deb. 4's of 1955,	104,487.20	3,871.80
200,000 New York, Ontario & Western Ref. M. 4's of 1992,	208,452.15	7,882.60
100,000 New York, Westchester & Boston R'y 1st M. 4½'s of 1946,	96,250.00	4,500.00
370,000 Northern Pacific-Great Northern Joint 4's (C. B. & Q. Coll.) of 1921,	190,549.67	14,800.00
Amounts carried forward,	\$4,913,461.66	\$218,234.22

GENERAL INVESTMENTS

	Principal.	Income.
Amounts brought forward, . . .	\$4,913,461.66	\$218,234.22
Railroad Bonds (continued).		
\$100,000 Oregon Short Line Cons. 1st M. 5's of 1946,	111,302.45	4,569.14
100,000 Oregon Short Line Ref. M. 4's of 1929,	96,875.00	4,000.00
250,000 Richmond-Washington Co. Coll. Trust		
4's of 1943, Series C,	253,958.40	9,327.90
150,000 St. Louis & San Francisco P. L. 4's of		
1950,	122,650.00	4,000.00
25,000 St. Louis & San Francisco Cum. Adj.		
6's of 1955,	24,281.25	1,500.00
£40,000 St. Paul, Minneapolis & Manitoba (Paci-		
fic Extension) 4's of 1940,	198,557.00	7,526.64
\$100,000 Southern Pacific 1st Ref. M. 4's of 1955,	97,062.50	4,000.00
100,000 Southern Pacific Co. Conv. 4's of 1929,	99,625.00	4,000.00
400,000 Terminal R. R. Association of St. Louis		
Gen. M. Ref. 4's of 1953,	358,000.00	16,000.00
200,000 Union Pacific 1st M. & L. G. 4's of 1947,	177,114.75	8,000.00
100,000 " " Conv. 4's of 1927,	95,392.50	4,000.00
	<u>\$6,548,180.51</u>	<u>\$285,657.90</u>

Traction Bonds.

\$100,000 Boston Elevated R'y 5's of 1942, . . .	\$100,000.00	\$5,000.00
200,000 Chicago Railways 1st M. 5's of 1927, .	198,166.70	10,000.00
100,000 Cleveland Railway Ref. M. 5's of 1931,	100,000.00	5,000.00
100,000 Georgia Railway & Power Co. 5's of		
1954,	92,500.00	5,000.00
300,000 Interborough-Metropolitan Coll. Trust		
4½'s of 1956,	254,782.50	6,750.00
200,000 Interborough Rapid Transit Co. 5's of		
1966,	197,000.00	10,000.00
100,000 Metrop. West Side Elevated 4's of 1938,	91,746.25	4,000.00
100,000 " " " Ext. M. 4's		
of 1938,	97,000.00	4,000.00
50,000 Milwaukee Electric Railway & Light Co.		
7% Notes of 1920,	49,125.00	3,237.50
150,000 Montreal Tramways Co. 1st M. Ref. 5's		
of 1941,	149,625.00	7,500.00
71,000 New York Railways Co. Adj. M. 5's of		
1942,	37,814.09	.....
16,000 New York Railways Co. 1st R. E. & Ref.		
M. 4's of 1942,	12,537.67	640.00
100,000 Northern Texas Traction Co. 1st M. 5's		
of 1938,	100,000.00	5,000.00
100,000 Nova Scotia Tramways & Power Co.		
5's of 1946,	94,500.00	5,000.00
300,000 Old Colony Street R'y 1st M. Ref. 4's of		
1954,	270,500.00	6,876.00
100,000 Second Ave. (N.Y.) Con. M. 5's of 1948,	115,789.60	.....
Amounts carried forward,	\$1,960,586.81	\$78,003.50

	Principal.	Income.
Amounts brought forward, . . .	\$1,960,586.81	\$78,003.50
Traction Bonds (continued).		
\$1,000 Springfield Railway & Light Co. S. F. 5's of 1926,	1,000.00	50.00
21,000 Third Avenue R'y 1st Ref. M. 4's of 1960,	17,220.50	840.00
55,500 Third Avenue R'y Adj. Inc. 5's of 1960, 50,000 Toronto Railway 6% Notes of 1918 (sold during year),	40,489.42 .....	..... 1,500.00
50,000 Toronto Railway 6% Notes of 1920, .	49,080.00	1,483.33
	<u>\$2,068,376.73</u>	<u>\$81,876.83</u>

Sundry Bonds.

\$100,000 Adirondack Electric Power Co. 5's of 1962,	\$98,000.00	\$5,000.00
100,000 Alabama Power Co. 5's of 1946, . . .	95,000.00	5,000.00
200,000 American Agricultural Chemical Co. 5's of 1924,	190,000.00	10,000.00
100,000 American Foreign Securities Co. 5's of 1919,	98,000.00	5,000.00
200,000 American Smelting & Refining Co. 1st 5's of 1947,	196,000.00	10,000.00
100,000 American Tel. & Tel. Co. 4's of 1929, .	101,470.01	3,836.67
120,000 American Tel. & Tel. Co. 5's of 1946, .	117,600.00	6,000.00
49,600 American Tel. & Tel. Co. Conv. 6's of 1925,	46,624.00	1,488.00
100,000 Anaconda Copper Co. 6's of 1929, . . .	98,250.00	.....
125,000 Armour & Co. 6's of June, 1919 (sold during year), . . . . .	.....	7,245.85
100,000 Bell Telephone Co. of Canada 5's of 1925,	100,500.00	4,843.75
100,000 Bethlehem Steel Co. 5's of 1919 (sold during year), . . . . .	.....	5,000.00
100,000 Bethlehem Steel Co. 7% Notes of July, 1919,	99,375.00	3,305.56
100,000 Bird & Son Inc. 6's of 1929,	98,500.00	.....
50,000 Boston Consolidated Gas Co. 4½'s of 1919 (sold during year), . . . . .	.....	2,250.00
145,000 Broadway Realty Co. Purchase money 1st M. 5's of 1926,	148,337.82	6,693.70
100,000 Chicago Junction Railways and Union Stock Yards 5's of 1940,	98,500.00	5,000.00
100,000 Chicago Junction Railways and Union Stock Yards 4's of 1940,	98,750.00	4,000.00
100,000 Chicago Telephone Co. 5's of 1923, . .	100,713.52	4,762.13
75,000 Chicago Union Station 4½'s of 1963, . .	75,000.00	3,375.00
100,000 Cincinnati Gas and Electric 5's of 1956,	99,560.00	5,000.00
Amounts carried forward,	\$1,960,180.35	\$97,800.66

GENERAL INVESTMENTS

	Principal.	Income.
Amounts brought forward,	\$1,960,180.85	\$97,800.66
Sundry Bonds (continued).		
\$107,000 City of Victoria, B. C., Deb. 4½'s of 1928,	100,770.00	4,815.00
100,000 Cleveland Electric Ill. Co. 1st 5's of 1939,	91,500.00	5,000.00
50,000 Columbus Electric Co. 6% Notes of 1919,	49,588.00	1,408.33
100,000 Columbus Power Co. 1st 5's of 1936,	88,880.00	5,000.00
100,000 Commonwealth Edison Co. 1st M. 5's of 1943,	100,000.00	5,000.00
100,000 Consolidated Gas, Electric Light & Power Co. 7's of 1922,	100,000.00	.....
50,000 Consumers Power Co. 6% Notes of 1919 (sold during year), . . . . .	.....	3,138.33
99,000 Crane Company 5½'s of 1944,	98,970.00	5,445.00
50,000 Dallas Light & Power Co. 7's of 1920,	49,500.00	3,266.67
50,000 Duquesne Light Co. 6's of 1921,	48,000.00	1,033.33
50,000 Edison Electric Ill. Co. of Brockton 6% Notes of 1919,	48,800.00	3,000.00
100,000 Edison Electric Ill. Co. 7's of 1922,	99,625.00	3,630.75
62,000 Edison Electric Ill. Co. 5's 1922,	57,970.00	852.50
50,000 Electric Securities Corporation 5's of 1940, 9th series,	50,000.00	2,500.00
50,000 Electric Securities Corporation 5's of 1942, 11th series,	50,000.00	2,500.00
62,000 Electric Securities Corporation 5's of 1946, 14th series,	61,410.00	3,100.00
10,000 General Electric Co. 6% Notes of 1920,	9,975.00	600.00
100,000 General Electric Co. Deb. 5's of 1952,	99,750.00	5,000.00
200,000 Great Western Power Co. 5's of 1946,	177,500.00	10,000.00
300,000 Illinois Steel Co. Deb. 4½'s of 1940,	284,250.00	13,500.00
100,000 International Cotton Mills Co. 7% Notes of 1920,	98,500.00	6,727.78
150,000 Kansas City Stock Yards Co. Deb. 5's of 1920,	150,000.00	7,500.00
100,000 Laclede Gas Light Co. 7's of 1929,	99,750.00	.....
100,000 Laurentide Power Co. Ltd. 5's of 1946,	84,000.00	694.44
100,000 Mahoning & Shenango Railway and Light Co. 5's of 1920,	97,500.00	5,000.00
50,000 Massachusetts Gas Co.'s S. F. 4½'s of 1929,	48,875.00	2,250.00
100,000 Michigan State Telephone Co. 5's of 1924,	100,000.00	5,000.00
300,000 Midvale Steel & Ordnance Co. 5's of 1936,	295,751.25	15,000.00
100,000 Minneapolis General Electric Co. Gen. M. 5's of 1934,	101,285.89	4,908.20
105,400 Montana Power Co. 5's of 1943,	96,441.00	5,270.00
100,000 Municipal Gas & Electric Co. of Rochester, N. Y., 1st M. 4½'s of 1942,	100,000.00	4,500.00
Amounts carried forward,	\$4,898,170.99	\$238,435.99

	Principal.	Income.
Amounts brought forward,	\$4,898,170.99	\$233,435.99
Sundry Bonds (continued).		
\$100,000 National Tube Co. 5's of 1952,	99,750.00	5,000.00
100,000 New Bedford Gas & Edison Light Co. 1st 6's of 1928,	100,000.00	5,166.67
68,475 New England Fuel and Transportation Co. 6% Notes of 1920,	66,420.75	4,108.50
79,000 New England Power Co. 1st 5's of 1951,	75,840.00	3,950.00
100,000 Nipe Bay Co. 5's of 1925,	92,500.00	5,000.00
100,000 Northern States Power Co. 5's of 1941,	96,500.00	5,000.00
100,000 Oklahoma Gas & Electric Co. 6% Notes of 1919 (sold during year), . . . .	.....	4,883.84
100,000 Oklahoma Gas & Electric Co. 7% Notes of 1920,	99,250.00	.....
100,000 Pacific Coast Power 5's of 1940, . . .	96,000.00	5,000.00
45,000 Pejepscot Paper Co. 1st M. 5's of 1921,	44,550.00	2,350.00
100,000 Pennsylvania Water & Power Co. 5's of 1940,	86,000.00	652.78
121,000 Portland Gen'l Elec. 1st M. 5's of 1935,	121,462.00	6,019.16
100,000 Portland R'y Light & Power Co. 1st M. 5's of 1942,	95,500.00	5,000.00
50,000 Proctor & Gamble Co. 7% Notes of 1919 (sold during year), . . . . .	.....	3,373.61
50,000 Proctor & Gamble Co. 5% Notes of Oct. 1, 1919,	48,895.00	1,680.56
100,000 Public Service Co. of New Jersey 7's of 1922,	97,085.08	262.50
100,000 Public Service Co. of Northern Illinois 6's of 1920,	97,700.00	6,000.00
43,500 Puget Sound Traction, Light & Power Co. 6's of 1919 (sold during year), . . . . .	.....	1,805.00
150,000 Puget Sound Traction, Light & Power Co. 7's of 1921,	146,625.00	9,945.84
50,000 Railway & Light Securities Co. Coll. Trust 5's of 1935, 1st series	50,143.56	2,490.44
100,000 Railway & Light Securities Co. Coll. Trust 5's of 1939, 2d series,	100,000.00	5,000.00
100,000 Railway & Light Securities Co. Coll. Trust 5's of 1939, 3d series,	98,000.00	5,000.00
50,000 Railway & Light Securities Co. Coll. Trust 5's of 1944, 5th series,	49,250.00	2,500.00
200,000 San Francisco Gas & Electric Co. 4½'s of 1933,	187,000.00	9,000.00
100,000 Seattle Electric Co. 5's of 1936, . . .	100,769.20	4,923.06
196,000 Seattle Electric — Seattle Everett 5's of 1939,	181,967.50	9,800.00
100,000 Shawinigan Water & Power Co. 6% Notes of 1919,	97,500.00	6,000.00
Amounts carried forward,	\$7,226,879.08	\$352,747.45

GENERAL INVESTMENTS

	Principal.	Income.
Amounts brought forward, . . .	\$7,226,879.08	\$352,747.45
Sundry Bonds (<i>continued</i>).		
\$100,000 Southern Bell Telephone Co. 5's of 1941,	99,000.00	5,000.00
100,000 Southern California Edison Co. 6% Notes of 1919 (sold during year), . .	.....	7,500.00
200,000 Southern Power Co. 1st M. 5's of 1930,	197,500.00	10,000.00
191,000 St. Louis National Stock Yards Co. 1st M. 4's of 1930,	184,465.00	7,640.00
50,000 Swift & Co. 6% Notes of 1921,	50,125.00	.....
100,000 Tacoma Railway & Power Co. 1st M. 5's of 1929,	100,609.20	4,932.30
100,000 Toronto Harbor Commissioners 4½'s of 1933,	85,500.00	650.00
50,000 United Electric Securities Co. Coll. Trust 5's of 1936, 24th series, . . .	50,000.00	2,500.00
10,000 United Electric Securities Co. Coll. Trust 5's of 1937, 26th series, . . .	10,000.00	500.00
25,000 United Electric Securities Co. Coll. Trust 5's of 1940, 32d series,	25,178.56	1,241.06
100,000 United Electric Securities Co. Coll. Trust 5's of 1942, 36th series,	100,000.00	5,000.00
100,000 United Electric Securities Co. Coll. Trust 5's of 1942, 37th series, . . .	99,500.00	5,000.00
23,000 United Electric Securities Co. Coll. Trust 5's of 1943, 38th Series, . . .	22,770.00	1,150.00
100,000 United Electric Securities Co. Coll. Trust 5's of 1944, 39th series,	98,750.00	5,000.00
100,000 United Fruit Co. 4½'s of 1925 (sold dur- ing year), . . . . .	.....	4,400.00
100,000 United States Rubber Co. 5's of 1947, .	87,850.00	5,000.00
50,000 U. S. Smelting, Refining & Mining Co. . 6's of 1926,	51,166.55	2,805.55
100,000 United Traction & Electric Co. 1st M. 5's of 1933,	106,004.50	2,037.50
200,000 Washington Water Power Co. 6% Notes of 1920,	196,332.15	8,091.67
200,000 Washington Water Power Co. 5's of 1939,	200,264.00	9,986.00
100,000 Western Elec. Co. 1st M. 5's of 1922, .	99,500.00	5,000.00
50,000 Westinghouse Electric Co. 6% Notes of 1920,	50,098.75	.....
100,000 Winnsboro Mills Co. 6% Gold Notes of 1921,	98,000.00	6,000.00
	\$9,239,487.79	\$452,181.53

		Principal.	Income.
Railroad Stocks.			
812 shares	Baltimore & Ohio,	\$79,329.17	\$3,248.00
60 "	Baltimore & Ohio, preferred, . . .	4,600.00	240.00
507 "	Chicago, Milwaukee & St. Paul, pfd.,	50,670.58	.....
1268 "	Chicago, Milwaukee & St. Paul, . .	177,425.94	.....
2510 "	Chicago & No. Western,	340,628.99	17,570.00
1653 "	Great Northern, preferred,	323,411.96	11,571.00
955 "	Great Northern Iron Ore Properties, }		3,820.00
960 "	Louisville & Nashville,	109,924.00	6,720.00
8 "	Louisville Property	1.00	.....
700 "	Manhattan,	92,762.50	4,900.00
288 "	New York Central & Hudson River, .	20,673.21	1,440.00
1000 "	Northern Pacific,	115,315.00	7,000.00
7576 "	Pennsylvania,	449,932.58	22,728.00
232 "	Third Avenue Railway,	5,800.00	.....
500 "	Union Pacific,	77,812.50	5,000.00
		<u>\$1,847,187.48</u>	<u>\$84,237.00</u>

Manufacturing and Telephone Stocks.

3634 shares	American Tel. & Tel. Co.,	\$429,023.71	\$29,072.00
360 "	Amoskeag Manufacturing Co., . . .	1.00	1,950.00
500 "	The Fisk Rubber Co., 1st. preferred,	50,000.00	.....
2330 "	General Electric Co.,	79,865.80	18,280.00
187 "	Merrimack Manufacturing Co., . . .	18,615.10	1,122.00
500 "	Nashua Manufacturing Co., pfd., . .	50,000.00	.....
1225 "	Pacific Mills,	42,708.29	17,150.00
1000 "	Western Union Telegraph Co., . . .	62,125.00	7,000.00
		<u>\$732,338.90</u>	<u>\$73,974.00</u>

Real Estate Trust Stocks.

1000 shares	Barristers Hall,	\$92,766.00	\$2,250.00
898 "	Boston Ground Rent Trust,	79,525.00	3,271.26
250 "	Business Real Estate,	23,750.00	1,062.50
2105 "	Congress Street Associates,	196,130.00	6,205.85
2500 "	Department Store,	220,291.88	2,142.86
1000 "	Essex Street,	100,000.00	3,500.00
850 "	Kimball Building,	83,100.00	.....
1090 "	Paddock Building,	104,458.72	2,725.00
1000 "	Post Office Square Building,	108,000.00	3,500.00
1000 "	St. Paul Business Real Estate Assoc.,	100,000.00	4,750.00
848 "	Trimountain Trust,	75,158.50	3,770.90
2000 "	Western Real Estate Trust,	207,750.00	14,000.00
		<u>\$1,885,930.10</u>	<u>\$42,892.65</u>

Sundry Stocks.

1081 shares	Edison Elec. Illum. Co., Boston, Mass.,	\$312,486.74	\$12,861.00
1500 "	Electric Bond & Share Co. preferred,	186,500.00	2,425.00
500 "	Massachusetts Gas Companies, pref'd,	37,169.52	2,000.00
1500 "	Turners Falls Power & Electric Co.,	158,300.00	8,000.00
1025 "	United Fruit Co.,	166,643.15	3,075.00
1250 "	Armour Co., preferred,	125,000.00	.....
20 "	Washington Water Power Co., . . .	2,000.00	80.00
		<u>\$837,949.41</u>	<u>\$38,441.00</u>

SUMMARY:

Mortgages and Notes,	\$1,630,999.08	\$77,351.45
Public Funds,	656,998.00	23,445.59
Railroad Bonds,	6,548,180.51	285,657.90
Traction Bonds,	2,068,376.78	81,876.83
Sundry Bonds,	9,239,487.79	453,181.53
Railroad Stocks,	1,847,187.43	84,237.00
Manufacturing and Tel. Stocks,	732,838.90	73,974.00
Real Estate Trust Stocks,	1,385,930.10	42,892.65
Sundry Stocks,	837,949.41	23,441.00
Total, Exhibit A,	<u>\$24,947,442.95</u>	
Total, Exhibit B,		<u>\$1,149,057.95</u>

SCHEDULE 3

LAND AND BUILDINGS—GENERAL INVESTMENT

June 30, 1919

	Principal.	Net Income.
Real Estate in Boston.		
Adams Estate, Washington Street,	\$250,000.00	\$14,318.45
Amory Estate, Franklin Street,	206,013.80	42.05
Brewer Estate, 36 and 37 South Market St., . .	23,428.93	903.29
Cowdin Estate, 13 and 14 Washington St., North,	36,000.00	2,568.13
Estate, 128 to 136 Federal Street,	499,766.49	20,907.56
Estate, 364 and 366 Washington St.,	308,859.97	8,914.72
Estate, 31 and 33 Otis and 112 Arch Streets, . .	153,077.56	3,449.39
Faneuil Hall Square Estate,	197,047.80	8,328.84
Gerrish Block, Blackstone and North Streets, . .	192,875.75	10,308.16
Gray Estate, Washington Street,	1,013,661.60	104,597.52
Jaynes Estate, Washington and Hanover Streets,	202,000.00	12,000.00
Lowell Estate, Washington Street,	493,868.91	35,374.85
Old Boston Music Hall Estate,	580,035.01	30,181.72
Townsend Estate, Hawkins Street,	44,419.49	1,336.84
Webb Estate, Washington Street,	164,604.79	17,745.79
Estate, 14 and 20 Franklin St.,	64,803.61	2,401.40
Estate, 17 and 19 Washington Street, North, . .	47,265.00	2,462.80
Estate, 20 and 21 Washington Street, North, . .	60,592.85	2,314.70
Estate, 175-183 Summer Street,	271,457.85	12,066.22
Real Estate in Cambridge.		
Harvard Riverside (part),	47,232.59	922.15
Little Block and Dunster Hall,	12,485.63	3,820.32
Total, Exhibit A,	<u>\$4,869,497.63</u>	
Total, Exhibit B,		<u>\$294,964.90</u>

ABBREVIATIONS USED IN SCHEDULE 4, FUNDS AND GIFTS

The abbreviations G. Ex. and Sp. Ex. following the name of a school or department, indicate "general expense," and "special expense" respectively for that school or department. A memorandum of other abbreviations follows.

Ap. Chap. ....Appleton Chapel	Fogg Mus. ....Fogg Museum
Arch. Fell. ....School of Architecture Fellowship	Ger. Mus. ....Germanic Museum
Arch. Sch. ....School of Architecture Scholarship	Gift Cap.....Gift for Capital
A. A. ....Arnold Arboretum	Gr. Bus. L. F. Graduate School Business Administration Loan Funds
B. I. ....Bussey Institution	Gr. Sch. Med. Graduate School of Medicine
B. H. Obs. ....Blue Hill Meteorological Observatory	Gray Herb.....Gray Herbarium
Bot. Garden....Botanic Garden	Law L. F. ....Law Loan Funds
Bot. Mus. ....Botanical Museum	Law Sch. ....Law Scholarships
Cap. Gain ....Gain in Sale of Investments	Med. Fell. ....Medical Fellowships
Cap. Loss.....Loss in Sale of Investments	Med. Sal. ....Medical Salaries
Coll. B. F. ....College Beneficiary Funds	Med. Sch. ....Medical Scholarships
Coll. Fell. ....College Fellowships	Min. Sch. .. School of Mining Scholarship
Coll. Sal.....College Salaries	M. C. Z. ....Museum of Comparative Zoölogy
Coll. Sch. ....College Scholarships	Obs.....Astronomical Observatory.
Div. B. F. ....Divinity Beneficiary Funds	Peab. Mus.....Peabody Museum
Div. Sal. ....Divinity Salaries	P. M. Fell....Peabody Museum Fellowships
Div. Sch.....Divinity Scholarships	Ph. Br. Ex. ..Phillips Brooks House Expenses
Engin. Sch. ..Engineering Scholarships	Sem. Mus. ....Semitic Museum
F. & G. Sp. ..Non-departmental Funds and Gifts, Schedule 36	Sum. Sch. ....Summer Schools
	U. Ex.....University Expense
	U. Sal. ....University Salaries

FUNDS AND GIFTS

FUNDS AND GIFTS

June 30, 1919

[The date following the title of a Fund shows the year of its establishment.]

UNIVERSITY FUNDS

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1919</i>	<i>Totals</i>
Charles Allen (1913),	\$8,000.00	Interest . . . \$153.60	U. Ex. . . . \$153.60	.....	\$8,000.00	
Anonymous (1910),	133,273.95	" . . . 5,579.24	Annuities . . 5,600.00	.....	133,253.19	
Anonymous No. 2 (1918),	31,888.37	" . . . 1,087.63				
		Other receipts 686.47				
Anonymous No. 4 (1916),	256,725.86	Gift Cap. . . 50,000.00			33,118.06	
		Interest . . 14,175.39	Annuities . . 12,097.78		308,808.47	
Walter F. Baker (1909),	80,908.53	" . . . 4,142.54	U. Ex. . . . 4,142.54	.....	80,908.53	
William H. Baldwin, Jr. (1906), . .	2,000.00	" . . . 103.40	" 103.40	.....	2,000.00	
Band Music (1908),	1,143.00	" . . . 58.53	" 58.53	.....	1,143.00	
Caroline M. Barnard Bequest (1911),	58,513.61	" . . . 3,001.37	" 2,439.37			
			Coll. Sch. . . 563.00	.....	58,513.61	
John Barnard (1777),	666.67	" . . . 34.15	U. Ex. . . . 34.15	.....	666.67	
J. Arthur Beebe Bequest (1916), . .	241,175.00	" . . . 10,709.76	" 8,561.53			
			F. & G. Sp. . 2,148.23	.....	241,175.00	
Andrew Bigelow (1898),	4,950.00	" . . . 253.44	U. Ex. . . . 253.44	.....	4,950.00	
S. Parkman Blake and Robert Parkman Blake Memorial (1917),	50,000.00	" . . . 2,560.00	" 2,560.00	.....	50,000.00	
Stanton Blake (1889),	5,000.00	" . . . 266.00	" 266.00	.....	5,000.00	
Charlotte F. Blanchard (1891), . .	4,771.88	" . . . 173.07	" 173.07	.....	4,771.88	
Mrs. Francis Bowen Bequest (1919),	.....	Gift Cap. . . 8,000.00				
Samuel D. Bradford (1866),	5,250.00	Interest . . . 268.80	U. Ex. . . . 268.80	.....	8,000.00	
					5,250.00	

Martin Brimmer (1907),	50,000.00	Interest . . .	670.00	U. Ex. . .	670.00	.....	50,000.00
Godfrey L. Cabot (1918), . . . . .	.....	Gift Cap. . .	10,000.00	"		.....
		Interest . . .	430.81	"	430.81	.....	10,000.00
James C. Carter (1906),	50,895.12	"	2,605.82	"		.....
		Other receipts	49,104.88	"	2,605.82	.....	100,000.00
John W. Carter (1898),	12,500.00	Interest . . .	452.98	"	452.98	.....	12,500.00
Fund of the Class of 1842 (1908), .	156.08	"	7.99	"	7.99	.....	156.08
Twenty-fifth Anniversary Funds:							
Class of 1881 (1906),	114,899.19	"	5,892.88	"	5,892.88	.....	114,899.19
Class of 1882 (1907),	100,000.00	"	5,120.00	"	5,120.00	.....	100,000.00
Class of 1883 (1908),	97,655.77	"	4,999.99	"	4,999.99	.....	97,655.77
Class of 1888 (1918),	98,000.00	"	4,721.70	"	4,721.70	.....	98,000.00
Class of 1889 (1914),	100,000.00	"	5,022.00	"	5,022.00	.....	100,000.00
Class of 1890 (1915),	86,000.00	"	4,408.20	"	4,408.20	.....	86,000.00
Class of 1891 (1916),	100,000.00	"	5,120.00	"	5,120.00	.....	100,000.00
Class of 1892 (1917),	100,000.00	"	3,500.00	"	3,500.00	.....	100,000.00
Class of 1893 (1918),	100,000.00	"	4,723.16	"	4,723.16	.....	100,000.00
Class of 1894 (1916),	16,149.17	Gift Cap. . .	85,000.00	"		.....
		Interest . . .	870.66	"	870.66	.....	101,149.17
Class of 1896 (1917),	15,341.51	Gift Cap. . .	10,000.00	"		.....
		Interest . . .	1,181.89	"		.....	27,022.90
Class of 1899 (1916),	82,555.48	Gift Cap. . .	2,000.00	"		.....
		Interest . . .	1,711.87	"		.....	86,267.30
John Coggan (1852),	1,500.00	"	76.80	U. Ex. . .	76.80	.....	1,500.00
Edwin Conant (1914),	1,061.60	"	54.37	"	54.37	.....	1,061.60
Thomas Cotton (1727),	155.45	"	7.94	U. Sal. . .	7.94	.....	155.41
Amounts carried forward, \$1,951,135.24							
\$2,171,914.28							

UNIVERSITY FUNDS (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense	Principal, June 30, 1919
Amounts brought forward, \$1,951,135.24					\$2,171,914.98
John Cowdin (1898),	88,885.06	Interest	1,243.87 U. Ex.	1,243.87	88,885.06
George B. Dorr (1883),	115,968.56	"	4,199.45 "	4,199.45	115,968.56
George Draper (1893),	48,458.50	"	1,754.98 "	1,754.98	48,458.50
R. H. Eddy (1901),	56,788.00	"	2,056.61 "	2,056.61	56,788.00
Harvard Ellis (1895),	101,225.49	"	5,182.72 "	5,182.72	101,225.49
Richard W. Foster (1905),	20,918.57	"	280.31 "		
		Other receipts 4,081.43	"	280.31	25,000.00
John Davis Williams French (1901),	5,322.09	Interest	193.01 "	193.01	5,322.09
Gore (1834),	20,571.18	"	275.65 "	275.65	20,571.18
John C. Gray (1881),	25,000.00	"	905.55 "	905.55	25,000.00
Samuel S. Greeley Bequest (1918),		Gift Cap.	1,000.00 "		
		Interest	43.98 "	43.98	1,000.00
Harvard Endowment (1917),	224,157.10	Gift Cap.	111,000.00 Coll. G. Ex.	13,328.50	
		Interest	16,369.28 F. & G. Sp.	1,224.58	836,374.00
Walter Hastings (1888),	20,000.00	"	763.81 U. Ex.	763.81	20,000.00
Francis Lee Higginson (1916),	422,576.46	Interest	22,074.82 Coll. Sal.	22,074.82	422,576.46
[Formerly Anonymous No. 8]					
Henry L. Higginson (1906),	100,000.00	"	2,086.25 U. Ex.	2,086.25	100,000.00
Thomas Hollis (for Treasurer) (1721),	520.00	"	26.62 "	26.62	520.00
Thomas Hubbard (1774),	1,000.00	"	51.90 "	51.90	1,000.00
Nathaniel Hulton (1695),	444.44	"	22.73 "	22.73	444.44
Thomas Hutchinson (1739),	238.83	"	11.98 "	11.98	238.83
George Baxter Hyde (1895),	5,000.00	"	256.00 "	256.00	5,000.00
Insurance and Guaranty (1860),	4,000.00				4,000.00

Leonard Jarvis (1859),	16,871.68	Interest . . .	611.38	U. Ex. . . .	611.38	.....	16,871.68
Henry P. Kidder (1884),	10,000.00	" . . .	184.00	" . . .	184.00	.....	10,000.00
Joseph Lee (1802),	10,000.00	" . . .	362.40	" . . .	362.40	.....	10,000.00
Morris Longstreth (1916), . . .	23,609.82	" . . .	1,208.83	" . . .	1,208.83	.....	23,609.82
Theodore Lyman (1898),	10,000.00	" . . .	512.00	" . . .	512.00	.....	10,000.00
Robert C. McIlwain Bequest (1917),	7,718.49	" . . .	395.16	" . . .	395.16	.....	7,718.49
Henry T. Morgan (1888),	37,734.26	" . . .	1,931.98	" . . .	1,931.98	.....	81,960.54
Isaiah Munson (1844),	15,750.00	Other receipts	44,216.28	" . . .	570.61	.....	15,750.00
Henry S. Nourse (1904),	52,400.00	Interest . . .	570.61	" . . .	570.61	.....	15,750.00
		" . . .	2,692.38	" . . .	1,675.78	.....
Francois E. Parker (1886),	113,817.44	Other receipts	11,862.16	Annuity . .	1,007.10	.....	64,262.16
George F. Parkman (1909), . . .	25,000.00	Interest . . .	4,121.63	U. Ex. . . .	4,121.63	.....	113,817.44
William Perkins (1888),	30,000.00	" . . .	1,280.00	" . . .	1,280.00	.....	25,000.00
Henry L. Pierce (1898),	50,000.00	" . . .	1,586.00	" . . .	1,586.00	.....	30,000.00
Henry L. Pierce (Residuary) (1898),	162,428.82	" . . .	2,560.00	Lib. G. Ex. .	2,560.00	.....	50,000.00
		" . . .	7,879.37	" . . .	2,457.79	.....
		Other receipts	99,530.71	M. C. Z. . .	4,915.58	.....
				Deficit Univ.		.....
President's (1883),	64,565.59	Interest . . .	3,305.78	U. Ex. . . .	14,898.43	.....	247,066.10
Retiring Allowance (1879),	410,745.36	" . . .	21,080.14	F. & G. Sp. .	3,824.89	.....	64,546.48
Riveride (1903),	11,000.00	.....		Cancellation of investment	16,076.19	.....	415,699.31
					11,000.00	.....	.....
Ezekiel Rogers (1701),	3,535.00	" . . .	180.99	U. Ex. . . .	180.99	.....	3,535.00
Daniel Russell (1679),	1,514.00	" . . .	77.52	" . . .	77.52	.....	1,514.00
John L. Russell (1889),	28,370.08	" . . .	1,196.54	" . . .	1,196.54	.....	28,370.08
Mary R. Searle (1908),	1,859.60	" . . .	95.23	Fogg M.Sp.Ex.	88.38	.....	1,916.45
Amounts carried forward, \$4,289,072.06						.....	\$4,711,756.84

UNIVERSITY FUNDS (continued)					Principal, July 1, 1918	Receipts	Expenditures	Suspense June 30, 1919	Totals
Amounts brought forward, \$4,239,072.06									
Richard Black Sewall Bequest (1919),						Gift Cap. . . \$238,934.00			\$4,711,756.84
Isaac Sweetser (1894),					46,913.13	Interest . . . 935.50	U. Ex. . . . \$935.50		238,984.00
Seth Turner (1883),					5,000.00	" . . . 2,401.95	" . . . 2,401.95		46,913.13
William F. Weld (1893),					100,000.00	" . . . 256.00	" . . . 256.00		5,000.00
Gifts for trees :						" . . . 3,621.30	" . . . 3,621.30		100,000.00
E. B. Adams,					150.00				150.00
Class of 1883,					50.00				50.00
Class of 1898,						Gift . . . 65.00		Cr. \$65.00	
A. C. Coolidge,					150.00				150.00
Mrs. Edward F. Greene,					25.00				25.00
Robert L. McCook,					546.67	Interest . . . 21.87			568.54
Anonymous Gift for Anonymous Purpose,						Gift . . . 150.00			
Gift for equipment of University Directory,						Other receipts 350.00	U. Sp. Ex. . . 500.00		
Gifts for Harvard Bureau American University Union in Europe,					1,894.37	Gifts . . . 1,500.00	" . . . 1,500.00		
Gift for Expenses of Reserve Officers' Training Corps,					468.54		F. & G. Sp. . 1,894.37		
Gifts for War Activities Fund,					58,285.43	Interest . . . 1,049.77	" . . . 468.54		
Gift for general purposes,						Gifts . . . 5,023.81			
						Other receipts 1,169.26	" . . . 25,272.67		40,205.60
						Gifts . . . 809.73	U. Ex. . . . 609.73		\$5,148,759.11

COLLEGE FUNDS

John W. P. Abbot (1874),	\$19,177.41	Interest . . .	\$981.86	.....		\$30,159.27
Alford Professorship (1766),	29,491.55	" . . .	1,509.99	.....		31,001.54
Thomas J. Allen (1914),	30,105.00	" . . .	1,541.38	Coll. G. Ex. .	\$1,541.38	30,105.00
Percy Lee Atherton Gift (1915), . .	10,715.53	" . . .	548.66	" Sp. " .	400.00	10,864.19
Edward Atkinson (1919), . . . . .	.....	Gift Cap. . .	26,427.50	.....	
		Interest . . .	200.00	.....		26,627.50
Daniel Austin (1879),	7,806.86	" . . .	399.72	Lib. G. Ex. .	399.72	7,806.86
William H. Baldwin, Jr., 1885 (1906),		" . . .	286.16	Trans. to Harv.		
John B. Barringer (1873),	5,588.96	" . . .	286.16	Ec. Studies .	286.16	5,588.96
Louise E. Bettens (1916),	30,686.85	" . . .	1,571.17	Coll. Sal. . .	1,571.17	30,686.85
Robert Charles Billings, for Gray Herbarium (1908),	20,084.37	" . . .	1,028.80	.....		21,112.67
John A. Blanchard (1878),	15,000.00	" . . .	768.00	Gray Herb. .	768.00	15,000.00
Botanic Department (1880),	1,050.00	" . . .	53.76	Coll. G. Ex. .	53.76	1,050.00
Boyiston Professorship (1772),	39,780.00	" . . .	2,036.74	" Sp. " .	768.77	
Charles Osmyn Brewster (1912), . . .	28,337.40	" . . .	1,450.85	Bot. Garden .	1,272.97	39,780.00
Robert P. Clapp (1919),	10,174.51	" . . .	520.96	Coll. Sal. . .	1,450.85	28,337.40
Twenty-fifth Anniversary Funds:	.....	Gift Cap. . .	5,000.00	" Sp. Ex. .	40.00	10,655.47
Class of 1880 (1905),	103,669.41	Interest . . .	5,307.85	.....		5,000.00
Class of 1884 (1909),	100,099.91	" . . .	5,126.12	" Sal. . .	5,307.85	108,669.41
Class of 1885 (1910),	111,840.00	" . . .	5,726.21	" G. Ex. .	5,126.12	100,099.91
Class of 1886 (1911),	100,000.00	" . . .	5,120.00	" " .	5,726.21	111,840.00
Class of 1887 (1912),	100,000.00	" . . .	5,120.00	" " .	5,120.00	100,000.00
Amounts carried forward, \$5,215,612.96				" " .	5,120.00	100,000.00
						\$799,385.03 \$5,148,758.11

COLLEGE FUNDS (continued)

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals</i>
Amounts brought forward,	\$6,215,612.96				\$799,386.08 \$6,149,758.11
Class of 1883 Special Fund (1908),		Interest			415.86
Class Subscription (1870),	395.58	"	\$80.28		150,637.54
Classical Publication Fund of the	150,637.54	"	7,712.67 Coll. Sal. . .	\$7,712.67	
Class of 1886 (1888),	7,179.37	"	367.56 " Sp. Ex.	103.71 Cr. \$73.47	7,869.75
Edward W. Codman (1905),	320,378.84	"	17,206.03 " G. "	17,206.08	820,378.34
Helen Collamore Bequest, Gray					
Herbarium (1916),	1,515.00	"	77.57 Gray Herb. .	77.57	1,515.00
T. Jefferson Coolidge, for Re-					
search in Physics (1901),	18,558.95	"	950.22 Coll. Sp. Ex.	2,091.54	17,417.63
George G. Crooker (1913),	5,000.00	"	256.00 " G. "	256.00	5,000.00
Ernest B. Dane in Physics (1912),	53,354.16	"	2,134.16 " Sp. "	1,533.05	53,965.27
Paul Dudley (1751),	4,969.09	"	254.41 F. & G. Sp. .	100.00	5,128.50
Alexis Irenée Du Pont (1917),	97,997.50	"	5,255.90 Coll. Sp. Ex.	672.41	102,580.99
Eaton Professorship (1908),	115,423.12	"	5,908.66 " Sal. .	5,500.00	115,832.78
Eliot Professorship (1814),	21,619.50	"	1,106.89 " " .	1,106.89	21,619.50
Eliot Professorship (Jonathan					
Phillips's gift) (1854),	10,000.00	"	350.00 " " .	350.00	10,000.00
Erving Professorship (1791),	3,500.01	"	179.20 " " .	179.20	3,500.01
William Everett (1918),	4,112.00	"	278.98		
		Cap. Gain	29.00		4,414.98
John S. Farlow Memorial (1898),	100,000.00	Interest	5,130.00		
[Formerly Unknown Memorial]		"	" Sp. Ex.	3,230.00	100,097.68
Fisher Professorship (1894),	41,708.76	"	2,185.24 " Sal. .	2,185.24	41,708.76
Henry Flynt (1760),	486.14	"	22.82 " " .	22.44	486.02

Fund for Permanent Tutors (1796), . . .	16,240.38	Interest . . .	831.49	Coll. Sal. . .	831.49	.....	16,240.38
Fund for Religious Services (1887), . . .	1,038.57	" . . .	52.94	Ap. Chap. . .	52.94	.....	1,038.57
George A. Gardner (1892), . . .	5,500.00	" . . .	281.60	Coll. Sp. Ex.	190.66	Cr. 11.04	5,579.90
Wolcott Gibbs Memorial Endowment (1912),	24,517.27	" . . .	1,255.27				
		Other receipts	491.81	" " . .	2,388.32	Dr. 591.74	24,517.27
Godkin Lectures (1903),	19,617.47	Interest . . .	1,004.39		.....		20,621.86
Gospel Church (1869),	9,297.81	" . . .	476.06	" Sal. . .	288.08	.....	9,535.84
Asa Gray Memorial (1898),	33,111.00	Gift Cap. . .	50.00				
		Interest . . .	1,695.85	Gray Herb. .	1,695.85	.....	33,161.00
Asa Gray Professorship of Systematic Botany (1897),	21,451.25	" . . .	1,098.29	" " . .	1,098.29	.....	21,451.25
Gurney (1888),	200,096.86	" . . .	10,244.97	Coll. Sal. . .	10,182.63	.....	200,096.86
				Annuities . .	112.34	.....
2 George Silsbee and Ellen Sever Hale (1904),	6,039.05	" . . .	309.20	Trans. to Lib. Fd.	309.20	.....	6,039.05
Harvard Foundation for Exchanges with French Universities (1912), . .	35,239.27	" . . .	1,804.28	U. Sp. Ex. .	1,800.00	.....	35,243.50
Harvard Oriental Series (1899), . . .	15,000.00	" . . .	768.00	Coll. Sp. Ex.	768.00	.....	15,000.00
Herbarium (1865),	20,655.91	" . . .	1,057.59	Gray Herb. .	1,057.59	.....	20,655.91
Hersey Professorship (1775),	20,217.08	" . . .	1,085.11	Coll. Sal. . .	621.07	.....	20,217.08
				Med. " . .	414.04	.....
Hershey Professorship (Thomas Lee's gift) (1856),	21,744.18	" . . .	1,118.29	Coll. " . .	1,118.29	.....	21,744.18
Richard Hodgson Memorial (1912),	14,075.68	" . . .	730.59		.....	.....	14,794.27
Albert Fairchild Holden Bequest (1917),	2.52		.....		.....	.....	2.52
Amounts carried forward, \$6,686,230.32							\$6,237,818.08
							\$5,148,753.11

COLLEGE FUNDS (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense	Principal, June 30, 1919	Totals
Amounts brought forward,	\$6,636,280.32				\$2,297,818.08	\$5,148,763.11
Rose Hollingsworth (1916), . . .	500.00	Interest . . . \$35.60	Gray Herb. . .	\$35.60	500.00	
Hollis Professorship of Mathematics,	3,747.83	" . . . 191.85	Coll. Sal. . .	191.85	3,747.83	
Composed of these Funds :—						
Thomas Brattle (1718),						
William Dummer (1762),						
Daniel Henchman (1768),						
Thomas Hollis (1726),						
Charles W. Hubbard (1917), . .	10,250.00	" . . . 512.80	" Sp. Ex.	809.54	Dr. \$46.74	10,000.00
John E. Hudson Professorship in						
Archaeology (1917),	149,298.80	" . . . 7,641.04	" Sal. . .	4,000.00		152,879.84
Ingersoll Lecture (1894),	7,624.11	" . . . 890.85				8,014.46
Gardiner M. Lane Bequest (1914),	1,509.48	" . . . 77.26				1,586.74
Abbott Lawrence (1859),	61,789.10	" . . . 3,161.04	" " . . .	993.06		
James Lawrence (1865),	50,541.54	" . . . 2,597.75	Engin. Sch. Sal. 1,215.27			62,691.81
George H. Leatherbee Lecture			Coll. Sal. . .	993.05		
Fund (1918),	57,990.15	" . . . 2,989.77	Engin. Sch. Sal. 1,215.27			50,920.97
Lectures on Political Economy (1889), .	15,149.00	Cap. Gain . .				61,129.92
Lee Fund for Reading (1868), . . .	15,796.97	Interest . . .				15,924.63
Henry Lee Professorship (1900), . .	118,501.62	" . . . 808.91	Coll. Sal. . .	808.81		15,796.97
Solomon Lincoln Bequest (1911),	12,402.88	" . . . 6,067.90				124,568.99
		" . . . 685.08				
Sales publ. . .	15.91	" Sp. Ex.		18.29		18,040.60

Calvin Stoughton Locke (1915),	1,000.00	Interest . . .	51.20	Coll. Sp. Ex.	51.20	.....	1,000.00
Morris Loeb Bequest (1914), . . .	497,880.91	" . . .	20,088.86	Annuities . .	21,860.14	.....	496,639.68
Joseph Lovering for Physical Research (1891),	8,153.57	" . . .	417.43	Coll. Sp. Ex.	196.80	.....	8,873.20
Lowell Fund for a Botanic Garden (1882) (formerly Professorship of Natural History, 1805),	69,074.76	" . . .	3,586.64	Bot. Garden .	3,536.64	.....	69,074.76
Woodbury Lowery Memorial (1910),	22,332.98	" . . .	1,143.45	Coll. Fell. . .	200.00	.....	28,276.43
Arthur T. Lyman (1904),	60,000.00	" . . .	3,072.00	" Sal. . .	3,072.00	.....	60,000.00
Charles Nicholas McCall Fund (1912),	29,727.46	" . . .	1,522.02			.....
		Other receipts	59,941.86	" . .	1,522.02	.....	89,668.82
McLean Professorship (1884), . . .	43,062.98	Interest . . .	2,204.88	" . .	2,204.88	.....	43,062.98
Maria E. McMaster Bequest (1917),	7,168.88	" . . .	866.69			.....	7,530.57
Matchett Fund (1918),	325,000.00	" . . .	16,640.00	" G. Ex. .	16,640.00	.....	325,000.00
Emily H. Moir Bequest (1914), . .	47,001.00	" . . .	1,967.98	" . .	1,967.98	.....	47,801.00
		Cap. Gain . .	800.00	" . .		.....
Music Building Maintenance Fund (1911),	54,778.19	Interest . . .	2,804.63	" Sp. . .	2,547.82	.....	55,085.00
Music Department (1903),	814.56	" . . .	16.13			.....	830.69
James J. Myers (1916),	100,971.34	" . . .	5,169.73	Annuities . .	7,000.00	.....	99,141.06
John Newgate (1850),	338.33	" . . .	17.05	Div. Sch. G. Ex.	17.05	.....	338.33
William Belden Noble Lectures (1898),	31,055.01	" . . .	1,590.02			.....
		Sales publ. . .	6.02	F. & G. Sp. .	571.27	.....	32,079.78
Amounts carried forward,	\$8,438,540.22					.....	\$4,106,367.47
						.....	\$6,148,758.11

COLLEGE FUNDS (continued)

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals</i>
Amounts brought forward, \$8,438,540.22					
Trenor L. Park Bequest (1911),	21,914.79	Interest . . . \$ 1,122.05	Coll. G. Ex. \$1,122.05	.....	\$4,105,367.47
Francis Greenwood Peabody Fund (1905),	113,393.80	" 5,805.77			21,914.79
		Sales pub'l. . . 17.12	" Sp. Ex. 2.62		119,214.07
Daniel H. Peirce (1876),	15,203.12	Interest . . . 778.39	" Sal. . . 700.55	.....	15,280.96
Perkins Professorship (1841),	22,071.00	" . . . 1,130.04	" " . . 1,130.04	.....	22,071.00
Jonathan Phillips (1861),	31,500.00	" . . . 1,612.80	" G. Ex. . 1,612.80	.....	31,500.00
Physical Laboratory Endowment (1891),	75,000.00	" . . . 3,840.00			
		Gift Income. 1,000.00	" Sp. " 5,043.54	Dr. \$203.54	75,000.00
Plummer Foundation (1854),	26,296.21	Interest . . . 1,346.36	Div. Sch. Sal. 1,346.36	.....	26,296.21
Pope Professorship (1868),	52,500.00	" . . . 2,688.00	Coll. Sal. . . 2,688.00	.....	52,500.00
Sarah E. Potter Endowment (1907),	201,490.38	" . . . 10,316.29	Gray Herb. . 10,316.29	.....	201,490.38
Professorship of Hygiene (1899),	252,348.06	" . . . 12,888.96	Coll. Sal. . . 5,447.98	.....
			Annuities . . 6,000.00	.....	253,784.09
" " (1902),	65,065.66	" . . . 3,332.39		.....	68,418.05
" " (1908),	67,649.25	" . . . 3,463.63		.....	71,112.88
Professorship of Latin-American History and Economics (1918),	129,098.98	" . . . 6,609.87	Coll. Sal. . . 500.00	.....	138,520.99
		" . . . 420.35	Lib. Books . 1,687.81	.....
General Publication Fund (1912),	8,209.57	Sales pub'l. . 3,172.31	Coll. Sp. Ex. 1,219.25	.....	10,582.98
Nelson Robinson, Jr. Additional (1906),	181,536.05	Interest . . . 384.64	" Sal. . . 1,000.00	.....
			" Sp. Ex. 1,353.78	.....	179,511.91

Eliza O. and Mary P. Ropes (1909),	121,864.24	Interest . . .	5,556.55	Coll. Sal. . .	3,333.33		128,530.91
		" . . .	365.47	Peab. M. G. Ex.	656.55	.....
Josiah Royce Memorial (1918), . .	3,421.21	Gifts Cap. . .	4,015.48		.....		7,802.16
Rumford Professorship (1819), . . .	62,565.99	Interest . . .	3,203.38	Coll. Sal. . .	3,203.38	.....	62,565.99
John L. Russell (1889),	2,000.00	" . . .	102.40	Bot. Garden	25.60	.....	2,000.00
				Gray Herb. .	76.80	.....	8,577.81
George William Sawin (1890), . .	8,160.02	" . . .	417.79		.....	
Wallace C. Sabine Memorial (1919),	.....	Gifts Cap. .	100,255.00				
		Gift Income .	2,000.00				
		Interest . . .	21.76	Annuity . .	1,000.00	.....	101,276.76
Robert W. Sayles (1906),	5,426.56	" . . .	277.86	Coll. Sp. Ex.	17.08	.....	5,687.39
Shaler Memorial (1907),	37,223.38	" . . .	1,905.82	" " "	487.60	.....	38,691.60
Smith Professorship (1816),	28,139.83	" . . .	1,184.77	" Sal. . .	1,184.77	.....	28,139.83
William M. Spackman (1905), . .	2,500.00	" . . .	128.00	" G. Ex. .	128.00	.....	2,500.00
Henry Baldwin Stone Memorial (1914),	53,460.00	" . . .	3,300.00	" " "	3,300.00	.....	53,460.00
Teachers' Endowment (1905), . . .	2,053,573.91	Gift Cap. . .	50.00	Cancellation of Investm't	10,000.00		
		Gift Income	400.00	Coll. Sal. .	102,441.83		
		Interest . . .	104,041.83	Sem. Mus.	2,000.00	.....	2,043,623.91
John E. Thayer (1885),	16,353.70	" . . .	837.33				
		Sales pub'l. .	2,241.71	F. & G. Sp. .	3,554.71	Dr. 121.97	16,000.00
Henry Warren Torrey (1890), . .	10,000.00	Interest . . .	512.00				
		Sales pub'l. .	268.33	Coll. Sp. Ex.	86.59	Cr. 80.44	10,563.30
Amounts carried forward, \$12,101,520.88							\$7,887,085.44 \$5,143,733.11

COLLEGE FUNDS (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense	Principal, June 30, 1919	Totals
Amounts brought forward, \$12,101,520.88.					\$7,887,085.44	\$5,148,758.11
Henry Villard (1902),	50,000.00	Interest . . . \$1,810.80	Coll. Sal. . . \$1,810.80		50,000.00	
Wales Professorship (1908),	89,540.20	" . . . 2,024.45	" " . . . 1,724.45			
			Trans. to Lib. Fd. 300.00		89,540.20	
Samuel Ward (1880),	26,885.59	" . . . 1,297.14	Coll. B. F. . . 7.00		26,626.78	
Cyrus M. Warren (1898),	7,562.72	" . . . 387.23	" Sp. Ex. 354.85		7,595.10	
Henry O. Warren (1899),	121,569.90	" . . . 6,224.38	" Sal. . . 3,775.55			
			" Sp. Ex. 1,844.22		122,174.51	
Sylvester Waterhouse (1896),	11,457.74	" . . . 586.65			12,044.39	
Increase Sumner Wheeler (1889),	50,829.64	" . . . 2,602.50	Ap. Chap. . . 2,991.04		50,441.10	
Jerome Wheelock (1908),	221.55	Gift Cap. . . 10.00				
		Interest . . . 11.62			243.17	
Edward Wheelwright (1915),	75,000.00	" . . . 3,840.00	Coll. G. Ex. . . 3,840.00		75,000.00	
Alfred Tredway White Endowment (1919),		Gift Cap. . . 50,000.00				
		Interest . . . 990.00			50,990.00	
Davies Wilson (1919),	5,487.50	" . . . 278.43	" " . . . 278.43		5,487.50	
Morrill Wyman (1915),	58,001.90	" . . . 2,969.70	" Sal. . . 1,500.00		59,471.60	8,886,648.74

GIFTS FOR SPECIAL USE (BALANCES)

Gift for general purposes,	Gift . . . \$50.00	Coll. G. Ex. . . \$50.00	
Gifts for salaries,	Gifts . . . 5,878.50	" Sal. . . 5,672.25	
Gift of Evan Randolph,		" Sp. Ex. 66.22	
			279.92

Dept. of Botany — Gift for expenses									
Plant Physiology,	376.70	Gift	300.00						
		Interest	19.17	Coll. Sp. Ex.	280.92			414.95	
Dept. of Chemistry — Edward Mal-									
linckrodt Gift, . . . . .	.61				.61				
Dept. of Chemistry — Anon. Gift for									
Research, Wolcott Gibbs Laboratory,		Gift	5,000.00						
		Interest	55.48					5,055.48	
Dept. of Classics — Gifts for Depart-									
ment,	493.83							493.83	
Dept. of Classics — Haynes Book									
Fund,	196.78							196.78	
Dept. of Classics — Gift for Classical									
Library,	152.67	Sales publ. . .	122.51	" "	14.76			260.42	
g Dept. of Classics — George Gris-									
wold Van Rensselaer Memorial									
Gift for Collection of Classical An-									
tiquities,	1,176.46	Interest	47.06					1,223.52	
Dept. of Economics — Gifts for Depart-									
ment,	554.48	"	22.18					576.66	
Dept. of Economics — Gifts for Books,	174.21			" "	60.82			118.39	
Dept. of Economics — Books in Eco-									
nomics A,	25.67			" "	3.60			22.07	
Dept. of Economics — Economics 2									
Book Fund,	193.95	Sales publ. . .	6.59	" "	9.44			191.10	
Dept. of Economics — Gift for Research									
in Public Finance,	88.42	Receipts	58.00	" "	25.00			121.42	
Amounts carried forward, \$12,552,704.54									\$11,602.79
									\$13,580,401.85

COLLEGE FUNDS (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense June 30, 1919	Principal, June 30, 1919	Totals
Amounts brought forward, \$12,552,704.54					\$11,602.79	\$13,550,401.85
Dept. of Economics—Gift for Research in Taxation,	5.11					
Dept. of Economics—Harvard Economic Studies,					5.11	
		Sales publ. . . \$1,313.69				
		Trans. from				
		W. H. Baldwin	286.16	Coll. Sp. Ex.	\$386.10	Cr. \$505.00
		win Fd. . . }				
Dept. of Economics—Gift for lectures, 100.00						100.00
Dept. of Education—Gifts for Special Uses in 1919-20,		Gifts 5,100.00				
		Interest . . . 45.08				5,145.08
Dept. of Education—Gift for Special Services in department library . . .	755.60					
Dept. of Education—Gifts for Bureau of Vocational Guidance,	3,784.47	Gifts 5,275.00				
		Interest . . . 78.19				
		Other receipts 8,475.54				
Dept. of Education—Gifts for Bureau of Vocational Guidance, Expenses 1919-20,						
		Gifts 915.00				915.00
Dept. of Education—Gift to increase the salary of a clerical assistant, . .	63.00					
Dept. of Education—Library Fine Money,	10.75	Fines 9.24				19.99

Dept. of English—English A Fund, .	85.38	Sales pub'l. .	495.54	Coll. Sp. Ex.	461.71	.....	119.21
Dept. of English—Gift for Publishing Expenses,	1,064.09	Gift	616.41	" "	1,680.50	.....	.....
Dept. of Fine Arts—Gift for lantern, .	21.74	.....	.....	" "	5.39	.....	16.85
Dept. of Fine Arts—Gift for photographs and slides in Fine Arts 1c, . .	286.98	.....	.....	" "	5.72	.....	281.26
Dept. of Fine Arts—Gift for slides and photographs in Drawing Courses, . .	119.71	.....	.....	.....	.....	.....	119.71
Dept. of French and other Romance Languages—Dept. Library,	28.46	.....	.....	" "	10.80	.....	12.66
Dept. of French and other Romance Languages—Gift for Experimental Phonetics,	78.08	.....	.....	.....	.....	.....	78.08
Dept. of Geology—Gift for Special Fund in Economic Geology,	206.23	"	250.00	" "	76.19	.....	379.04
Dept. of Geology—Gift for salary of laboratory assistant,	38.25	.....	.....	" "	33.25	.....	.....
Dept. of Geology—Gift for Expenses of Visiting Professors,	11.59	.....	.....	.....	.....	.....	11.59
Dept. of Germanic Languages—Gifts for Books, . . . . .	.....	Gifts	50.00	.....	.....	.....	50.00
Dept. of Government—Gifts for Bureau of Research in Municipal Government, .	1,126.13	Gift	1,250.00	.....	.....	.....	.....
		Interest . . .	19.92	" "	2,465.20	.....	.....
		Other receipts	69.15	" "	.....	.....	.....
Dept. of Government—Frank Graham Thomson Gift,	3,129.44	Interest . . .	76.68	" "	2,718.04	.....	498.08
Amounts carried forward, \$12,563,558.55	.....	.....	.....	.....	.....	.....	\$19,507.70 \$18,530,401.85

COLLEGE FUNDS (continued)

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals</i>
Amounts brought forward, \$12,568,558.55					\$19,507.70 \$18,580,401.85
Dept. of Government — Gift for ex- penses in Government 1,	30.44		Coll. Sp. Ex. \$13.00		17.44
Dept. of Government — Gift for books on School Administration,	23.34				23.34
Dept. of Government — Gifts for Pub- lishing Expenses,	473.48	Gift \$300.00 Interest . . . 28.40 Sales pub'l. . 172.18	" " " 1,565.12 Dr.	\$591.11	
Dept. of History — F. P. Bonney Gift,	8.48				8.48
8 Dept. of History — History 1 Book Ed., Gift,	887.31	Interest . . 14.19 Sales pub'l. . 140.05	" " " 692.96		848.59
Dept. of History — Gift Expenses Har- vard Commission on Western History, Dept. of Mathematics — Gift for Depart- ment,	957.59	Interest . . 38.80			995.39
Dept. of Mathematics — Mathematics Book Fund,	30.00				30.00
Dept. of Military Science — Gift for developing photopography,	265.19	Sales . . . 73.31	" " " 86.18		252.32
Dept. of Mineralogy — Gift for working tourmaline deposit in Maine,	383.51				383.51
Gifts for Dept. of Mines,	631.43	Interest . . 25.26 Gifts 675.00	" " " 426.92		656.69
Dept. of Philosophy — Books on Eugenics,	13.31		" " " 5.45		7.86

Dept. of Philosophy — Philosophical Library Gifts,	255.72	.....	Coll. Sp. Ex.	43.98	.....	211.79
Dept. of Philosophy — Gift for Professorship of Japanese Literature, . .	440.04	.....	.....	.....	.....	440.04
Dept. of Philosophy — Gift for Special Use at Psychological Laboratory, . .	27.66	.....	.....	.....	.....	27.66
Dept. of Physics — Gift for salary of laboratory assistant,	686.28	Gift	200.00	.....	.....	917.39
		Interest . . .	81.11	.....	.....
Department of Sanskrit,	4,531.88	" . . .	187.88	.....	.....	5,486.65
		Sales publ. .	706.94	.....	.....	147.15
Dept. of Semitic — Gift Semitic Library, Dept. of Social Ethics — Anonymous Gift,	147.15	.....	.....	.....	.....	2,808.41
Dept. of Social Ethics — Gift for Pamphlet on Cottage Housing	2,695.59	Interest . . .	107.82	.....	.....	.....
Dept. of Social Ethics — Gift for furnishing rooms,	12.75	.....	.....	" "	12.75	.....
Dept. of Social Ethics — Library Gifts,	51.24	.....	.....	.....	.....	51.24
Dept. of Zoology — Bermuda Biological Station,	215.23	.....	.....	" "	3.09	212.14
Gifts for binding collection of books sent to Southwark Public Library at London,	1,886.99	Gifts	1,575.00	" "	2,747.06	714.98
Committee on Economic Research, . .	74.35	.....	.....	.....	.....	74.35
	1,898.72	"	1,475.01	.....	.....	.....
		Interest . . .	49.82	.....	.....	.....
		Other receipts	9,700.00	" "	16,943.50 Dr.	4,824.95
Amounts carried forward, \$12,579,681.13	.....	.....	.....	.....	.....	38,504.60
						\$13,563,906.45

COLLEGE FUNDS (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense	Principal, June 30, 1919	Totals
Amounts brought forward, \$12,579,681.18						\$12,568,906.45
FELLOWSHIP						
Victor Emanuel Chapman Memorial (1917),	\$26,881.38	Interest . . . \$1,258.71	Coll. Fell. . \$1,200.00		\$26,440.09	
Joseph Hodges Choate Memorial (1919),		Gift Cap. . . 40,000.00			40,000.00	
Bayard Cutting (1910),	27,802.38	Interest . . . 1,428.46	" " . . . 862.50			
			Trans. to Lib. Fd. 280.48		28,082.86	
W. Bayard Cutting, Jr. Bequest (1910),	14,725.67	" " . . . 753.97			15,479.64	
George W. Dillaway (1903),	6,748.47	" " . . . 345.50	Coll. Fell. . . 200.00		6,893.97	
Charles Dexter Memorial (1919),		Gift Cap. . . 27,005.00			26,566.48	
		Interest . . . 348.75	F. & G. Sp. . . 787.27			
Du Pont Fellowship in Chemistry (Gift),		Gift 1,250.00	Coll. Fell. . . 500.00		750.00	
Ozias Goodwin Memorial (1889),	12,458.39	Interest . . . 637.85	" " . . . 575.00		12,531.24	
William Watson Goodwin (1915),	18,902.09	" " . . . 967.78	" " . . . 400.00		19,469.87	
Harris (1868),	11,919.40	" " . . . 610.25	" " . . . 366.67		12,162.98	
Edward William Hooper (1906),	31,865.55	" " . . . 1,631.54			33,497.09	
John Thornton Kirkland (1871),	13,102.09	" " . . . 619.82			12,731.71	
Henry Lee Memorial (1889),	13,139.74	" " . . . 673.77	" " . . . 400.00		13,412.51	
Elkan Naumburg (1911),	12,726.16	" " . . . 651.57	Trans. to Lib. 2,397.13		10,480.60	
Charles Elliot Norton (1901),	21,719.45	" " . . . 994.09			22,658.54	
John Knowles Paine (1912),	28,553.56	" " . . . 1,840.86	Annuity . . 1,945.00		28,649.42	
Robert Treat Paine (1887),	14,801.00	" " . . . 757.81	Coll. Fell. . . 400.00		15,168.81	

John Parker (1878),	72,608.69	Interest . . .	8,717.58				
		Other receipts	187.50				
Francis Parkman (1906),	11,406.65	Interest . . .	584.04	Coll. Fell.	300.00		76,513.77
Princeton (1910),	11,532.07	" . . .	593.00	Law Fell.	380.00		11,690.69
Rogers (1869),	38,356.68	" . . .	1,963.88				11,845.07
Henry Bromfield Rogers Memorial							40,320.56
(1889),	12,829.21	" . . .	656.85	Coll. Fell.	600.00		12,888.06
Sachs Research Fellowship in Fine							
Arts (1916),	2,187.12	" . . .	34.67	" .	1,500.00		721.79
Henry Russell Shaw (1912), . .	42,794.94	" . . .	2,188.03				44,922.97
Social Ethics,	105.13						105.13
South End House (balance), . . .	10.04						10.04
Spanish American Fellowship (Gift), .		Gift . . .	500.00				500.00
Thayer (1857),	91,073.90	Interest . . .	4,662.99	Coll. Fell.	2,338.34		91,903.53
				" Sch.	1,500.02		14,134.63
John Tyndall (1886),	13,493.74	" . . .	690.89				18,045.32
James Walker (1881),	12,909.38	" . . .	680.94	" Fell.	525.00		28,413.62
Whiting (1896),	27,916.63	" . . .	1,429.35	" .	933.86		672,002.99

BOHOLABHIP

Abbot (1853),	\$. 122.73	Interest . .	\$214.17	Coll. Sch. . .	\$116.67	.....	\$4,280.23
Alford (1785),	4,051.82	"	207.46		.....	.....	4,259.28
Anonymous Gift for Scholarship,		Gift . . .	150.00	"	100.00	Cr. \$50.00	.....
Anonymous Gift for Scholarship in Harvard College,		"	200.00		.....	.....	200.00
Bartlett (1881),	5,640.46	Interest . .	288.77	"	166.67	.....	5,792.56
Amounts carried forward,	\$18,184,616.66						\$14,502.07 \$14,285,909.44

Amounts carried forward,	\$18,184,615.65	\$14,502.07	\$14,235,909.44
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COLLEGE FUNDS (continued)

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals June 30, 1919</i>
Amounts brought forward, \$18,184,615.65					\$14,503.07 \$14,285,909.44
Matthew and Mary E. Bartlett					
Memorial (1916),	19,623.80	Interest . . \$1,004.65	Coll. Sch. . .	\$288.84	20,843.61
Bassett (1876),	6,084.20	"	"	60.00	6,288.14
Bigelow (1865),	14,890.68	"	768.42	400.00	15,258.10
Samuel A. Borden (1896),	4,860.82	"	248.88	183.84	4,976.86
Bowditch (1864),	122,977.56	"	6,296.47	2,883.88	126,440.66
Bright (balance),	7,023.87	"	359.68		
		Trans. from Fd. 1,196.66	"	666.68	7,918.48
Addison Brown (1914),	7,876.80	Interest	"	216.67	8,092.88
2 Browne (1867),	4,884.24	"	224.46	245.00	4,868.70
Morey Willard Buckminster					
(1898),	5,953.66	"	304.85	88.34	6,175.17
Burr (1895),	37,804.60	"	1,985.52	800.04	38,940.18
Francis H. Burr 1909 Fund (1913),	9,395.90	"	481.08	195.00	9,681.98
Ruluff Sterling Choate (1884),	6,694.27	"	342.78	183.84	6,853.66
George Newhall Clark (1908),	11,121.83	"	557.40	500.00	11,178.78
Thomas William Clarke (1911),	5,315.65	"	272.18		5,587.83
Class of 1802 (1870),	9,295.04	"	475.90	266.67	9,504.27
" 1814 (1853),	8,562.78	"	133.43	150.00	8,595.21
" 1815 (Kirkland) (1852),	7,441.27	"	380.98	190.00	7,632.25
" 1817 (1852),	5,472.89	"	280.22		5,753.11
" 1828 (1882),	8,591.94	"	188.91	150.00	8,695.85
" 1835 (1868),	5,745.29	"	294.14		6,039.43

Class of 1841 (1871),	5,851.17	Interest . . .	299.57	Coll. Sch. . .	291.67	5,859.07
" 1844 (1896),	14,268.86	" . . .	689.76	" . . .	466.88	14,481.94
" 1852 (Dana) (1876), . . .	5,774.11	" . . .	295.63	" . . .	250.00	5,819.74
" 1856 (1865),	17,765.19	" . . .	909.57	" . . .	458.84	18,216.42
Scholarship Fund of the Class of						
1863 (1915),	8,248.86	" . . .	422.85		.....	8,671.21
Class of 1867 (1886),	7,616.49	" . . .	389.94		.....	8,006.43
" 1877 (1902),	6,029.44	" . . .	308.67	" . . .	150.00	6,188.11
" 1883 (1900),	6,777.57	" . . .	347.03	" . . .	137.50	6,987.10
Classical Department (Gift), . . . .	.....	Gift . . .	200.00		.....	200.00
Clement Harlow Condell (1911),	26,729.52	Interest . . .	1,368.58	" . . .	666.68	27,481.42
Crowninshield (1877),	13,529.59	" . . .	692.74	" . . .	550.00	13,672.33
George and Martha Derby (1881),	6,175.41	" . . .	316.16	" . . .	200.00	6,291.57
Julius Dexter (1892),	7,098.44	" . . .	368.42	" . . .	200.00	7,261.86
Orlando W. Doe (1893),	3,449.92	" . . .	176.64	" . . .	83.84	3,543.22
Edda Club (1911),	683.63	" . . .	35.02		.....	718.65
William Samuel Elliot (1876), . .	6,847.64	" . . .	325.02	" . . .	166.67	6,505.99
George H. Emerson (1903),	86,778.17	" . . .	1,883.03	" . . .	500.01	
Joseph Eveleth (1896),	47,056.53	" . . .	2,409.32	B. I. " . . .	400.00	37,761.19
				Coll. " . . .	733.34	
				Arch. " . . .	300.01	
Fall River (1898),	3,057.20	" . . .	156.52	Med. " . . .	600.00	47,832.50
Farrar (1873),	7,061.80	" . . .	361.57	Coll. " . . .	133.34	3,080.88
George Fisher and Elisabeth		" . . .		" . . .	200.00	7,223.37
Huntington Fisher (1908), . . .	5,484.25	" . . .	280.78	" . . .	133.34	5,631.69
Amounts carried forward, \$13,719,454.03						\$564,090.85 \$14,285,909.44

Principal,	
June 30, 1919	Totals
\$564,090.85	\$14,285,909.44
8,000.00	
13,196.99	
5,804.57	
8,585.24	
5,385.58	
2,376.68	
11,963.05	
6,191.82	
5,587.82	
.....	
101.88	
.....	
.....	
100.00	
.....	
600.00	
.....	
150.00	
150.00	
.....	

Harvard Club of Maryland, . . . .	.....	Gift	250.00	Coll. Sch. . .	250.00	.....	.....
“ “ Michigan,	195.00	“	125.00	“ “ . .	166.67	.....	83.33
“ “ Graduates of Milton,	250.00	“	250.00	“ “ . .	206.67	.....	293.33
New England Federation of Harvard Clubs,	50.00	.....	.....	.....	.....	.....	50.00
Harvard Club of New Jersey, . . . .	.....	“ . . . .	250.00	“ “ . .	250.00	.....	.....
“ “ Rhode Island,	150.00	“	200.00	“ “ . .	200.00	.....	150.00
“ “ San Francisco, . . . .	.....	“ . . . .	400.00	Law “ . .	350.00	.....	50.00
“ “ St. Louis, . . . .	.....	“ . . . .	600.00	Coll. “ . .	200.00	Cr. 300.00	100.00
“ “ Washington, D. C. (balance),	54.24	“	300.00	“ “ . .	250.00	.....	104.24
“ “ Western Penn., . . . .	.....	“ . . . .	250.00	“ “ . .	250.00	.....	.....
“ “ Worcester, . . . .	.....	“ . . . .	200.00	“ “ . .	200.00	.....	.....
8 John Appleton Haven (1902), . . .	11,728.40	Interest . . .	600.48	“ “ . .	475.01	.....	11,868.87
William Hilton (1897),	29,293.83	“	1,499.85	Med. “ . .	450.00	.....	30,343.68
Ebeneser Rookwood Hoar (1895),	12,984.36	“	664.78	.....	.....	.....	13,649.14
Levina Hoar, for the Lincoln Scholarship (1876),	7,049.24	“	360.91	.....	.....	.....	7,410.15
Hodges (1878),	15,505.59	“	793.91	Coll. “ . . .	183.34	.....	.....
Hollis (1722),	7,202.47	“	368.74	Trans. to Lib. Fd.	393.37	.....	15,722.79
Henry B. Humphrey (1890), . . .	12,404.22	“	635.08	Coll. Sch. . .	383.34	.....	7,671.21
Franklin Temple Ingraham Memorial (1918), . . . . .	.....	Gift Cap. . .	19,330.00	.....	.....	.....	12,705.96
		Interest . . .	824.96	.....	.....	.....	30,154.96
Amounts carried forward, \$18,875,788.83							\$753,477.14 \$14,285,909.44

Principal,	
Suspense June 30, 1919	Totals
...	\$752,477.14 \$14,285,909.44

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Charles Elliott Perkins Scholarships (1909),

Rebecca A. Perkins (1869), . . .	33,577.81	Interest . . .	1,719.19	Coll. Sch. . . Law "	538.34 300.00	84,463.66
Philadelphia (1904),	5,314.27	"	272.08		.....	5,586.35
Wendell Phillips Mem'l (1895), .	11,283.54	"	577.75	Coll. Sch. . .	233.34 Cr. \$118.87	11,509.08
Einathan Pratt (1912),	1,975.76	"	101.17		.....	2,076.93
William Reed (1907),	5,306.97	"	271.67		.....	5,577.64
Scholarship in memory of	3,989.68	"	188.09	"	100.00	4,077.77
Julian Henry Reinherz . . . . .	.....	Gift	250.00	"	200.00	50.00
Ricardo Prize (balance),	911.05	"	350.00	"	175.00	1,115.49
Rodger (1883),	2,376.11	Interest . . .	29.44	"	.....	2,392.64
Henry Bromfield Rogers (1859),	3,961.49	"	116.53	"	.....	4,074.29
Nathaniel Ropes, Jr. Scholarship	.....	"	202.80	"	90.00	.....
(1909),	11,792.16	"	608.75	"	333.34	12,062.57
James Augustus Rumrill (1909),	16,908.96	"	865.74	"	375.00	17,174.70
Edward Russell (1877),	6,468.23	"	331.16	Law "	235.00	6,699.39
Sales (1893),	6,496.32	"	332.60	Coll. "	200.00	6,662.24
Saltonstall (1739),	12,505.16	"	640.26	"	166.68	12,795.42
Leverett Saltonstall (1895), . . .	9,989.59	"	508.93	"	350.00	9,998.52
Mary Saltonstall (1730),	8,261.79	"	423.01	"	450.00	8,624.80
Philip H. Sears (1914),	17,780.86	"	910.89	"	60.00	17,941.26
Sever (1868),	3,421.96	"	175.21	"	750.00	100.00
Sewall (1896),	12,782.82	"	654.49	"	100.00	8,497.17
		"		"	250.00	13,187.31

Amounts carried forward, \$14,192,199.11 \$1,083,056.30 \$14,285,909.44

COLLEGE FUNDS (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense June 30, 1919	Principal, June 30, 1919 Totals
Amounts brought forward, \$14,192,199.11					
Shattuck (1854),	55,855.99	Interest . . . \$3,859.83	Coll. Sch. . . \$3,293.34	.....	\$1,803,056.80 \$14,385,909.44
Shimmin (1914),	5,313.37	" . . . 272.08	" " . . . 150.00	.....	56,483.48
Slade (1877),	6,708.80	" . . . 343.50	" " . . . 183.84	.....	5,435.40
Dunlap Smith (1908),	4,712.06	" . . . 200.61	.....	.....	6,868.96
Story (1864),	5,122.98	" . . . 292.80	" " . . . 200.00	.....	4,912.66
Stoughton (1701),	4,529.18	" . . . 217.39	F. & G. Sp. . . 38.16	.....	5,185.28
Charles Sumner (gift),	10.20	Gift . . . 200.00	Coll. Sch. . . 200.00	.....	4,708.41
Swift (1899),	4,981.36	Interest . . . 255.08	" " . . . 133.34	.....	10.20
Gorham Thomas (1865),	4,909.75	" . . . 251.89	" " . . . 250.00	.....	5,108.05
Toppan (1868),	8,050.35	" . . . 412.16	" " . . . 162.50	.....	4,911.14
Townsend (1861),	29,695.85	" . . . 1,520.43	" " . . . 1,400.00	.....	8,800.01
William Royall Tyler (1915),	2,567.76	" . . . 131.48	.....	.....	29,816.28
Ira D. Van Dusee (1911),	5,276.86	" . . . 270.18	Annuities . . 196.22	.....	2,699.24
Walcott (1855),	6,107.80	" . . . 312.68	Coll. Sch. . . 133.84	.....	6,850.83
Christopher M. Weld (1899),	11,778.07	" . . . 608.08	" " . . . 550.00	.....	6,286.64
Gordon Wendell (1918),	2,914.08	" . . . 136.80	.....	.....	11,831.10
Jacob Wendell (1899),	6,177.12	" . . . 316.26	" " . . . 187.50	.....	8,040.83
Whiting (1874),	12,809.45	" . . . 655.82	" " . . . 458.34	.....	6,805.88
Josiah Dwight Whitney (1904),	5,459.87	" . . . 279.55	" " . . . 260.00	.....	13,006.98
Mary L. Whitney (1908),	12,596.89	" . . . 644.97	" " . . . 425.00	.....	5,479.42
Willard (1907),	11,062.94	" . . . 566.58	" " . . . 475.00	.....	12,816.86
Augustus Woodbury Scholarship (1909),	2,822.92	" . . . 145.05	" " . . . 100.00	.....	11,187.52
Charles Wyman (1905),	11,126.80	" . . . 569.70	" " . . . 316.67	.....	2,877.97
					11,879.88
					1,807,028.21

BENEFICIARY AND LOAN

Rebecca C. Ames (1903),	59,607.81	Interest . . . \$8,051.98	60.00	Coll. B. F. . \$1,488.08	.....	\$61,231.66
		Loans repaid			.....	900.77
Nathaniel Appleton (1772), . . .	856.89	Interest . . .	48.88	.....	.....	3,165.63
Frank Bolles Memorial (1894), . .	3,011.47	" . . .	184.16	.....	.....	2,019.62
William Brattle (1717),	1,921.26	" . . .	98.36	.....	.....
Daniel A. Buckley (1906),	98,700.42	" . . .	1,696.92	" " "	3,283.41	
				Engin. Sch. .	188.84	
				Bus. " "	250.00	
				Med. " "	315.58	
				F. & G. Sp. .	2,768.55	98,651.41
Walter Channing Cabot (1905), .	56,707.05	" . . .	2,908.40	Div. Sal. .	2,000.00	57,610.46
Samuel C. Cobb (1916),	84,732.59	" . . .	1,780.89	Coll. B. F. .	1,446.67	85,116.81
Edward Erwin Coolidge (1906),	13,228.10	" . . .	916.46			
		Loans repaid	568.87	.....	.....	14,718.43
Thomas Danforth (1724),	1,676.73	Interest . . .	85.86	" " "	70.00	1,692.59
Moses Day (1880),	5,490.08	" . . .	281.09	" " "	125.00	5,646.17
Dean's Loan, Harvard College, . .	881.30	Gift	50.00	.....	.....	481.30
John Ellery (1738),	549.89	Interest . . .	28.16	.....	.....	578.05
Exhibitions (1796),	1,387.77	"	71.07	.....	.....	1,458.84
Fines Loan (balance),	4,755.01	"	98.69			
		Loans repaid	1,320.25			
		Fees	855.00	" " "	2,658.68	4,365.32
Thomas Fitch (1787),	1,408.77	Interest . . .	72.14	.....	.....	1,480.91
Ephraim Flynt (1728),	690.08	"	35.38	.....	.....	725.41
Henry Flynt (1760),	248.46	"	12.70	.....	.....	261.16
Amounts carried forward, \$14,698,205.68						\$285,049.58 \$15,542,932.65

COLLEGE FUNDS (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense	Principal, June 30, 1919	Totals
Amounts brought forward, \$14,698,205.68					\$385,049.63	\$15,542,933.65
Freshman Loan (balance),	1,780.15	Interest . . . \$43.12				
		Loans repaid	Coll. B. F. . . \$278.00		2,491.35	
		Interest . . . 50.58			1,315.07	
Freshman Loan, Gove Gift,	1,264.49					
Edward William Friend Memorial (1916),	1,290.71	" . . . 70.50			1,361.21	
Henry Gibbs (1732),	635.84	" . . . 35.12			720.96	
John Glover (1653),	5,486.40	" . . . 280.88			5,767.28	
Loan Fund — Graduate School of Arts and Sciences,	193.08	Loans repaid	245.95			
Price Greenleaf Aid (balance), . . .	47,767.92	Interest . . . 2,445.72	" . . . 370.00		68.98	
		Loans repaid	318.25			
		Trans. from Fd. 16, 152.71	" . . . 19,369.19		47,315.41	
Edwin A. W. Harlow (1905),	15,558.00	Interest . . . 796.57				
		Loans repaid	833.08		16,737.65	
Robert Henry Harlow (1908),	7,509.79	Interest . . . 384.51				
		Loans repaid	86.50		7,980.80	
Harvard Dames Fund,	257.63	Interest . . . 13.21			270.83	
Edward Holyoke (1749),	595.04	" . . . 30.46			625.50	
Robert Keayne (1659),	2,989.78	" . . . 152.06			3,121.84	
Bertram Kimball (1903),	27,129.60	" . . . 1,399.05	" . . . 1,175.70		27,342.95	
Harry Milton Levy Loan (College) (balance),	536.72	" . . . 12.54				
		Loans repaid	223.51		513.77	
		" . . . 250.00				

Mary Lindall (1812),	1,720.92	Interest . . .	88.12			1,809.04
The Loan,		Receipts from				
		Trustees . .	840.00	Coll. B. F. . .	840.00	
Susan B. Lyman (1899),	5,988.87	Interest . . .	306.64	Tr. to Coll. L. F.	204.43	
				" " Engin. "	102.21	5,988.87
Susan B. Lyman Loans (College)						
(balance),	849.20	"	48.18			
		Loans repaid	786.06			
		Trans. from Fd.	204.43			1,887.87
Anne Mills (1725),	299.78	Interest . . .	15.86			815.09
Munroe (1880),	13,556.05	"	694.02			
		Loans repaid	21.98			14,271.05
Palfrey Exhibition (1821),	2,649.59	Interest . . .	135.68			2,785.27
Dr. Andrew P. Peabody Memo-						
rial (1896),	7,042.90	"	360.60			
		Loans repaid	1.85			7,405.35
Regent's Loan Fund,	773.08	Interest . . .	80.92			804.00
Scholarship and Beneficiary Money						
Returned (balance),	2,969.42	"	63.97			
		Loans repaid .	2,655.27			
		Gifts	101.68	Coll. B. F. .	2,396.67	3,498.67
Joseph Sewall (1765),	347.91	Interest . . .	17.83			365.73
Alexander Wheelock Thayer						
(1899),	18,783.95	"	961.74	Annuities . .	480.00	19,265.69
Quincy Tufts (1877),	11,593.96	"	598.78			12,292.69
Benjamin Wadsworth (1787),	426.18	"	21.81			447.94
Waite Memorial (1912),	135,863.18	"	6,956.19			142,819.37
Amounts carried forward, \$15,014,134.66						\$16,157,566.41

COLLEGE FUNDS (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense	Principal, June 30, 1919	Total
Amounts brought forward, \$15,014,184.66						\$16,157,568.41
PRIZE						
Jeremy Belknap,		Gift \$50.00	Coll. Prize .	\$50.00		
James Gordon Bennett (1898), . .	2,832.02	Interest . . . 119.40	" " . .	75.00		\$3,376.42
Philo Sherman Bennett (1905), . .	617.43	" " . . . 81.59				649.02
Francis Boott (1904),	10,900.00	" " . . . 538.08	" " . .	190.00		10,900.00
Bowdoin Prizes for Dissertations (1791),	35,843.73	" " . . . 1,835.21	Tr. to Lib. Ed.	368.08		
Henry S. Bowers (Gift),	75.00	Gift 75.00	Coll. Prize .	971.73		36,707.21
Boylston Prizes for Elocution (1817),	2,611.21	Interest . . . 138.68	" " . .	120.00		150.00
Coolidge Debating (1899),	6,068.98	" " . . . 310.73	" " . .	274.04		2,634.89
Dante,	100.00					6,105.67
Lloyd McKim Garrison Prize and Medal (1904),	3,108.02	" " . . . 159.13	" " . .	4.50		100.00
Harvard Club of New Jersey Prizes (balance),	8.24					3,363.65
Harvard Club of North China, . . .	100.00					8.24
Harvard Menorah Society Prize, . .	100.00	Gift 100.00	" " . .	200.00		100.00
Edward Hopkins Gift for "De- tours" (1718)(balance),	2,839.80	Interest . . . 145.40				
		Receipts from				
		Trustees . .	247.73	" " . .	339.49	
						2,908.44

George Arthur Knight (1909), . .	1,617.63	Interest . . .	82.84	.....	1,700.47
Old Testament Study,	50.00	.....	.....	.....	50.00
Paria Society Gift,	50.00	.....	.....	.....	50.00
Susan Anthony Potter,	351.37	Gift	235.00	.....	594.34
Sales (1892),	1,805.86	Interest . . .	17.97	.....	1,827.73
John O. Sargent (1889),	3,288.96	"	66.87	Coll. Prize . .	3,357.36
Winthrop Sargent (1918), . . . .	.....	" . . . .	168.40	" " . .	.....
George B. Sohler (1890),	7,250.00	Gift Cap. . .	2,500.00	.....	2,589.45
Charles Sumner (1874),	5,677.69	Interest . . .	89.45	.....	7,250.00
Robert N. Toppan (1894),	4,549.07	"	371.20	" " . .	5,968.40
Lee Wade II (1915),	1,000.00	"	290.71	Tr. to Lib. Fd.	4,781.98
Philip Washburn (1889),	2,857.53	"	232.91	.....	1,000.00
David A. Wells (1901),	115,172.12	"	50.00	Coll. Prize . .	2,928.86
Elisabeth Wilder (1911),	2,312.44	"	146.33	" " . .	115,172.12
Wister (1911),	1,028.57	"	5,896.81	Coll. Sal. . .	2,430.81
			" Prize . .	1,155.00	1,081.25
				.....	216,170.81

SUMMER SCHOOL

Sayles, for Summer Course in Ge-					
ology (1909),	\$11,076.74	Interest . . .	\$567.14	Sum. Sch. Sp. Ex. \$300.00	\$10,843.88
Gift for current use,	250.00	.....	" " . .	250.00	10,843.88
Amounts carried forward, \$15,285,677.07					\$16,384,580.60

LIBRARY

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Totals</i>
Amounts brought forward, \$15,286,677.07					
Anonymous Fund for Library (1913), . . . \$25,000.00	Interest . . . \$800.00	Lib. G. Ex. . . \$800.00			\$16,384,580.60
Edwin Swift Balch, Class of 1878, (1918),	5,000.00	" . . . 189.19	" Books . . 111.83		
Boott Income for Books (balance), . . .	301.32	" . . . 15.41			5,077.36
Bowditch (1861),	2,867.98	Trans. from Fd. 868.08	" . . . 240.16		444.65
Bright (balance),	107.31	Interest . . . 121.24	" . . . 47.92		2,441.25
William R. Castle (1907),	1,980.84	Trans. from Fd. 1,280.00	" . . . 1,838.39		53.93
Francois James Child Memorial (1897),	29,279.99	Interest . . . 100.85	" . . . 40.26		2,040.98
Fund of the Class of 1851 (1899), . .	2,122.84	" . . . 1,499.14	" . . . 795.10		29,984.03
Book Fund of the Class of 1881 (1906),	3,783.69	" . . . 108.70	" . . . 167.08		2,064.51
Edwin Conant (1892),	28,182.86	" . . . 1,442.97	" . . . 130.26		3,852.43
Constantius (1886),	26,910.53	" . . . 1,877.84	" G. Ex. 1,082.28		
Archibald C. Coolidge and Clarence L. Hay (1910),	5,526.66	" . . . 292.98	" Books . 204.48		28,889.12
S. Newton Cutler (1912),	1,047.63	" . . . 53.66	" G. Ex. 688.92		26,757.02
Bayard Cutting Fellowship, . . . .	.....	Tr. from Fell. 280.48	Lib. Books . 842.43		
W. Bayard Cutting, Jr. Bequest (1910),	12,601.00	Interest . . . 645.17	" . . . 413.80		12,832.87

Horace Davis Bequest (1917), . . .	9,886.60	Interest . . .	496.97	Lib. Books .	438.61		
Peter P. F. Degrand Bequest (1917),	91,037.88	"		Cap. charge .	22.56		9,786.40
Denny (1875),	5,559.39	"		Lib. Books .	1,494.53		94,199.06
Henry Weston Farnsworth Memorial (1917),	30,782.85	"		"	252.64		5,591.37
Farrar (1871),	5,873.85	"		"			31,088.80
John Hays Gardiner Memorial (1913),	2,282.37	"		Sp. Ex. .	1,270.14		6,186.48
Department of German (1915), . . .	3,128.75	"		Books .	38.12		
Price Greenleaf (balance for books),	566.93	Trans. from Fd. 1,000.00		"			2,308.20
Price Greenleaf (for general expenses),				"			3,282.35
Charles Gross Memorial (1910), . .	1,770.47	Interest . . .	90.62	"			730.50
George Silsbee and Ellen Sever Hale Fund (balance),	541.58	"		"			
Edward H. Hall (1913),	10,869.68	Trans. from Fd. 309.20		G. Ex. .	18,152.71		
Frederic Hilborn Hall Memorial (1916),	5,882.98	Interest . . .	566.54	Books .	20.80		1,840.29
Haven (1844),	3,326.79			"			
Hayes (1885),	10,095.04	"		"			450.64
Hayward (1864),	5,893.41	"		"			10,994.11
R. M. Hodges (balance),	782.17	"		"			
		Trans. from Fd. 398.37		"			5,137.75
Hollis (1774),	2,432.30	Interest . . .	127.08	Sp. Ex. .	1,216.34	Dr. \$.76	
				Lib. Books .	159.33		2,450.05
Amounts carried forward, \$15,571,057.56							\$389,887.33 \$16,384,550.60

LIBRARY (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense June 30, 1919	Principal, Totals
Amounts brought forward, \$15,571,057.56					\$339,887.38 \$16,884,580.60
Homer (1871),	2,251.78	Interest	\$115.30 Lib. Books .	\$70.60	2,296.48
Jarvis (1885),	509.96	"	36.11 "	83.53	509.54
Richard Mather Jopling (1919),		Gift Cap.	500.00		
		Interest	4.48		504.48
Horatio King Fund (1913),	10,018.11	"	512.92 "	138.95	
Kittredge Anniversary Fund (1913),	4,311.72	"	220.77 Lib. Books .	105.48	10,001.36
Lane (1868),	5,504.86	"	281.86 "	355.69	4,427.01
George C. Lodge and Joseph Trumbull Stickney Memorial Book Fund (1911),	3,540.99	"	181.30 "	131.97	5,431.08
Lowell (1881),	38,170.22	"	1,698.30 "	688.42	3,590.32
Francis Cabot Lowell (1911),	11,179.78	"	572.42 "	97.14	34,180.10
James Jackson Lowell (1917),	20,924.98	"	1,071.36 "	889.65	11,655.06
Minot (1870),	62,956.87	"	3,228.40 "	5,134.37	21,106.64
Charles Eliot Norton (1905),	9,441.78	"	438.48 "	543.95	61,045.90
Elkan Naumberg Fellowship Income		Tr. from Fell. 2,897.13			9,881.26
Lucy Osgood (1873),	7,608.08	Interest	389.53 Lib. Books .	259.88	2,897.18
Mary Osgood (1860),	7,664.76	"	392.45 "	116.95	7,737.78
Francis Parkman Memorial (1908),	6,142.67	"	284.12 "	426.75	7,940.26
George F. Parkman (for books) (1909),	25,127.91	"	1,286.55 "	1,276.41	6,000.04
					25,188.05

B. Osgood Peirce (1916),	1,088.33	Interest . . .	55.71			1,144.04
James Mills Peirce Bequest (bal.),	568.51	" . . .	29.13	Lib. Books .	6.75	590.89
Charles Elliott Perkins Memorial,	606.99	" . . .	31.08	" " .	288.53	349.55
Hugo Reisinger (1916),	2,737.14	Gift Cap. . .	1,882.19			
		Interest . . .	191.28	" " .	16.51	4,194.05
Sales (1899),	3,931.06	" . . .	201.27	" " .	221.65	3,916.67
Salisbury (1858),	6,185.09	" . . .	316.67	" " .	9.26	6,492.50
Stephen Salisbury (1907),	5,120.00	" . . .	262.14	" G. Ex. .	262.14	5,120.00
Seyer (1878),	21,490.83	" . . .	1,100.34	" Books .	778.00	21,813.17
Shapleigh (1801),	3,973.57	" . . .	208.46	" " .	151.77	4,025.36
Robert Gould Shaw (1916), . . .	50,853.66	" . . .	2,603.72	" Sp. Ex. .	2,500.00	50,957.38
Amey Richmond Sheldon (1909),	304,579.68	" . . .	15,594.50	" G. " .	17,909.59	302,364.54
Clement Lawrence Smith (1916),	1,106.40	" . . .	56.63	" Books .	11.44	1,151.59
George B. Sohier Income for						
Books (balance),	35.71	Trans. from Fd.	121.20	" " .	142.53	64.38
Strobel Memorial, Class of 1877						
(1909),	3,340.84	Interest . . .	171.06	" " .	64.23	3,447.67
Strobel Memorial, Siam (1909), . .	2,280.54	" . . .	116.79	" " .	13.65	2,384.68
Subscription for Library (1859), . . .	10,881.32	" . . .	554.55	" " .	753.67	10,682.20
Sumner (1875),	40,388.68	" . . .	2,067.92	" " .	3,081.54	39,375.06
Kenneth Matheson Taylor (1899),	5,864.08	" . . .	274.64	" " .	314.43	5,324.29
Elizabeth Torrey Bequest (1896),	1,332.40	" . . .	68.20	" " .	28.13	1,372.47
Daniel Treadwell (1885),	12,268.49	" . . .	628.12	" G. Ex. .	314.06	
				" Books .	261.72	12,820.83
John Harvey Treat Book Fund						
(1911),	44,030.50	" . . .	2,187.78	" " .	3,412.71	42,805.57
Amounts carried forward, \$16,303,575.74						\$1,073,469.51 \$16,384,580.60

LIBRARY (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense June 30, 1919	Principal, June 30, 1919	Totals
Amounts brought forward, \$16,808,575.74						
Iohabod Tucker (1875),	5,424.80	Interest	\$246.71 Lib. Books	\$189.76	5,531.25	\$16,884,580.80
20th Mass. Regiment of Volunteer						
Infantry (1910),	1,000.85	"	51.20 "	47.86	1,008.89	
Wales Income for Books (balance), . .	166.31	Trans. from Fd.	300.00 "	204.09	262.22	
Walker (1875),	16,728.34	Interest	856.47 "	992.42	16,592.39	
Ward (1868),	5,345.37	"	273.66 "	188.66	5,480.37	
Julian Palmer Welsh Memorial						
(1910),	3,023.73	"	154.83 "	135.45 Dr. \$6.89	3,000.00	
Evert Jansen Wendell, . . . . .	.....	.....	Lib. Sp. Ex. 14,210.53	Dr. 14,210.53	.....
J. Huntington Wolcott (1891), . . .	21,010.85	"	1,075.76 " Books	1,066.56	21,020.05	
Chauncey Wright (1884),	1,309.56	"	67.07 " . . . . .	.....	1,376.63	
Eben Wright (1888),	100,000.00	"	5,120.00 " G. Ex.	5,120.00	100,000.00	
Sundry gifts for books (balances), . .	10,744.88	Gifts	702.82 " . . . . .	.....	.....
Duplicate money,	1,252.91	Interest	176.53 " Books	5,507.00	6,117.28	
Fines,	170.75	Sales	1,421.36 "	1,706.59	967.68	
Gifts for equipment of the Library, . .	797.37	Fines	478.88 "	407.15	242.48	
Gift of J. P. Morgan for certain ex-		Gift	150.00 " Sp. Ex.	607.41	889.96	
penses of the Library,	951.22	Gift	2,500.00 " . . . . .	.....	.....
Gift for equipment of rest room at		Interest	38.06 "	1,946.64	1,542.68	
Library,	30.11	.....	.....	.....	80.11	
Gift for frame for Chaucer portrait, .	145.54	.....	.....	.....	145.54	1,287,071.74

DIVINITY SCHOOL

New Endowment (1879),	\$71,677.02	Interest . . . \$3,669.86	Div. G. Ex. .	\$3,669.86	.....	\$71,677.02
Oliver Ames (1880),	17,000.00	" . . . 870.40	" " "	" 870.40	.....	17,000.00
Hannah C. Andrews (1886), . . .	525.00	" . . . 26.88	" " "	" 26.88	.....	525.00
Daniel Austin (1880),	1,115.26	" . . . 57.09	" " "	" 57.09	.....	1,115.26
Adams Ayer (1869),	1,000.00	" . . . 51.20	" " "	" 51.20	.....	1,000.00
Joseph Baker (1876),	15,275.00	" . . . 782.08	" " "	" 782.08	.....	15,275.00
Beneficiary money returned (balance),	339.00	.....			.....	339.00
Rushton Dashwood Burr (1894),	4,648.64	" . . . 238.08	" Sp. "	" 238.21	.....	4,663.46
Bussey Professorship (1862), . . .	37,583.74	" . . . 1,924.31	" Sal. . .	" 1,924.31	.....	37,583.74
Joshua Olapp (1886),	2,177.95	" . . . 111.52	" G. Ex. .	" 111.52	.....	2,177.95
Edwin Conant (1892),	5,000.00	" . . . 256.00	" " "	" 256.00	.....	5,000.00
Dexter Lecturehip (1810),	25,544.37	" . . . 1,807.85	" Sal. . .	" 1,807.85	.....	25,544.37
Protingham Professorship (1892),	58,703.14	" . . . 3,005.59	" " "	" 3,005.59	.....	58,703.14
Abraham W. Fuller (1847), . . .	1,050.00	" . . . 53.76	" G. Ex. .	" 53.76	.....	1,050.00
Lewis Gould (1852),	911.34	" . . . 46.64	" " "	" 46.64	.....	911.34
Louiss J. Hall (1893),	6,221.84	" . . . 318.57	" Sp. "	" 294.18	.....	6,246.28
Hancock Professorship,	6,008.43	" . . . 307.61	" Sal. . .	" 307.61	.....	6,008.43
Composed of these Funds:—						
Thomas Hancock (1765),						
Stephen Sewall (1762),						
Charles L. Hancock (1891), . . .	152,369.76	" . . . 8,871.96	Coll. G. Ex. .	5,679.57	.....	152,369.76
			Div. Sal. . .	3,192.39	.....
Haven (1898),	5,000.00	" . . . 256.00	" G. Ex. .	" 256.00	.....	5,000.00
Samuel Hoar (1857),	1,050.00	" . . . 53.76	" " "	" 53.76	.....	1,050.00
Amounts carried forward, \$16,884,877.32						
						\$418,239.70 \$17,621,652.34

DIVINITY SCHOOL (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense	Principal, June 30, 1919	Totals
Amounts brought forward, \$16,884,877.83						
Hollis Professorship of Divinity, . .	34,517.60	Interest . . . \$1,767.32	Div. Sal. . . \$1,767.32	.....	\$413,239.70	\$17,621,653.94
Composed of these Funds:—					34,517.60	
William Dummer (1762),						
Daniel Henchman (1742),						
Thomas Hollis (1731),						
Jonathan Mason (1798),						
James Townsend (1738),						
Henry P. Kidder (1881), . . .	10,000.00	" . . . 512.00	" G. Ex. .	512.00	.....	10,000.00
Henry Lienow (1841),	9,184.69	" . . . 470.27	" " "	470.27	.....	9,184.69
Caroline Merriam (1867), . . .	1,050.00	" . . . 53.76	" " "	53.76	.....	1,050.00
Parkman Professorship (1814), . .	16,015.81	" . . . 820.02	" Sal. . .	820.02	.....	16,015.81
Francis Greenwood Peabody Pro- fessorship (1917),	25,377.67	" . . . 1,299.35	" " "	1,299.35	.....	25,377.67
John W. Quinby (1888),	694.80	" . . . 35.58	" Sp. Ex. .	14.08	.....	716.30
Abby Crocker Richmond (1881),	1,000.00	" . . . 51.20	" G. " "	51.20	.....	1,000.00
John L. Russell (1890),	1,000.00	" . . . 51.20	" " "	51.20	.....	1,000.00
William B. Spooner (1890), . . .	10,000.00	" . . . 512.00	" " "	512.00	.....	10,000.00
Thomas Tlleston of New York Endowment (1879),	40,000.00	" . . . 2,048.00	" " "	2,048.00	.....	40,000.00
Mary P. Townsend (1861), . . .	5,250.00	" . . . 268.80	" " "	268.80	.....	5,250.00
Winthrop Ward (1862),	2,100.00	" . . . 107.52	" " "	107.52	.....	2,100.00
Winn Professorship (1877), . . .	62,845.73	" . . . 3,192.11	" " "	.....	.....	65,537.84
Augustus Woodbury Bequest (1909),	1,038.20	" . . . 53.14	" G. Ex. .	53.14	.....	1,038.20

Gifts for Library purposes,	660.78	Gift	3,976.14			
Interest		Interest	33.84	Div. Sp. Ex. . .	8,327.37	1,843.39
Gift for salaries,		Gift	1,000.00	" Sal.	1,000.00	.....
Gift for expenses of publishing Harvard Theological Studies,		Gift	500.00		.....	500.00
						637,871.20

SCHOLARSHIP AND BENEFICIARY

Robert Charles Billings Prize (1904),	\$3,032.74	Interest	\$154.78	Div. Prize . .	\$100.00	\$3,077.52
Abner W. Buttrick (1880),	13,943.76	"	713.98	" Sch.	600.00	14,057.69
Thomas Cary (1820),	6,068.72	"	310.73	" "	300.00	6,079.45
George Chapman (1834),	8,099.44	"	158.67	" "	150.00	8,108.11
Joshua Clapp (1839),	4,832.25	"	247.40	" " . . . . .	.....	5,079.65
Jackson Foundation (1835),	16,151.18	"	826.93	" "	925.00	16,053.06
J. Henry Kendall (1863),	6,174.53	"	316.16	" "	300.00	6,190.69
Nancy Kendall (1846),	3,746.99	"	191.85	" "	150.00	3,788.84
John C. Kimball (1912),	520.10	"	26.62	" " . . . . .	.....	546.72
William Pomroy (1835),	1,072.05	"	54.89	" " . . . . .	.....	1,126.94
						59,108.67

LAW SCHOOL

Law School Endowment (1918),	\$6,250.00	Gift Cap.	\$250.00			
Ames (1910),	10,544.05	Interest	325.79	Law G. Ex. . .	\$325.79	\$6,500.00
Samuel Ames Bequest (1916),	2,000.00	"	539.85	" Sp. "	500.00	10,583.90
James and Augusta Barnard Law (1912),	106,606.01	"	102.40	" "	102.40	2,000.00
		"	5,086.38	" "	5,086.38	106,606.01
Amounts carried forward, \$17,289,143.87						\$125,688.91
						\$18,318,632.21

LAW SCHOOL (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Surplus June 30, 1919	Totals
Amounts brought forward, \$17,289,143.87					
Bemis Professorship (1879),	109,646.97	Interest . . \$5,613.98	Law Sal. . . \$1,497.24		\$126,688.91 \$18,318,682.31
Andreas Blume Bequest (1919),		Gift Cap . . 511.66			118,763.86
Bussey Professorship (1863),	26,513.36	Interest . . 6.81	" G. Ex. . . 6.81		511.66
Byrne Professorship of Administrative Law (1917),	184,919.07	" . . . 1,957.47			27,870.83
James C. Carter Professorship (1906),	107,325.02	Gift Cap. . . 20,041.00			154,960.07
Dane Professorship (1829),	17,414.02	Interest . . . 7,798.53	" " . . 7,798.53		107,325.02
Royall Professorship (1781),	8,340.81	" . . . 5,495.04	Sal. . . 5,495.04		18,305.63
Esra Ripley Thayer Teaching Fellowship (1915),	26,456.90	" . . . 891.60			8,340.81
Weld Professorship (1882),	94,994.97	" . . . 427.06	" " . . 427.06		26,456.90
		" . . . 1,354.60	" " . . 1,354.60		94,994.97
		" . . . 4,868.74	" " . . 4,868.74		678,318.45
BOOK FUNDS					
Gift of James Munson Barnard and Augusta Barnard (balance),	\$1,011.15	Interest . . . \$18.09	Law Sp. Ex. \$350.23		\$779.03
John L. Cadwalader (1914),	20,000.00	" . . . 1,024.00	" " . . 1,024.00		20,000.00
Law School Book (1882),	47,021.25	" . . . 2,407.48	" " . . 2,407.48		47,021.25
Law School Library (1898),	100,000.00	" . . . 5,120.00	" " . . 5,120.00		100,000.00
					167,800.27

SCHOLARSHIP, BENEFICIARY, AND PRIZE

James Barr Ames Loan (1904),	Loans repaid	\$62.34	.....	\$62.34
James Barr Ames Prize (1898),	Interest	281.45	.....	5,778.38
Addison Brown Prize (1914),	"	151.19	.....	3,104.27
William Cheney Brown, Jr. Scholarship (1919),	Gift Cap	2,542.50	.....
	Interest	10.51	.....	2,553.01
James Coolidge Carter Loan (1906),	"	753.68	.....
	Loans repaid	155.83	.....	16,732.71
Samuel Phillips Prescott Fay, 1798, Fund and Scholarship (1907),	5,689.41 Interest	291.28 Law Sch.	\$235.50	5,755.19
George Fisher Scholarship (1906),	4,059.09 "	207.82 "	209.09	4,057.92
Langdell (1909),	28,895.28 "	1,453.82 "	1,095.00	28,754.10
Harry Milton Levy Loan (Law) (balance),	Loans repaid	192.82	.....	192.82
M. J. and Jennie Mack Loan (1916),	1,080.01 Interest	43.20	.....	1,123.21
Research Scholarship (Gift),	Gift	250.00	" . . . . .	.....
Scholarship Money Returned,	641.86 Loans repaid	2,420.86	" L. F.	647.22
Joshua Montgomery Sears, Jr. Memorial Fund for Prizes (1912),	37,294.84 Interest	1,885.50	" Prize	37,680.34
Gift for Books, Delaware Convention, " " Law Library,	Gift	200.00	" Sp. Ex. . . . .	.....
" " Framing Cost of Arms,	"	50.00	" " . . . . .	.....
	"	20.16	" " . . . . .	.....
Amounts carried forward, \$18,082,316.09				105,441.41
				\$19,270,092.84

SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals</i>
Amounts brought forward, \$18,088,216.09					\$19,270,092.34
The Depts. of Architecture and Landscape Architecture Additions Fund (Primary Fund) (1916),	\$239,050.68	Gift Cap. . \$100,000.00 Gifts Income 11,250.00 Interest . . . 13,618.33	Arch. G. Ex. \$1,111.77 Trans. to Second'ry Fd. 42,807.24		
The Depts. of Architecture and Landscape Architecture Additions Fund (Secondary Fund) (1919),		Trans. from Primary Fd. 42,807.24			
Revere Family Memorial (1913),	21,089.91	Interest . . . 1,079.81	Arch. Sp. Ex. 756.15		42,807.24
Nelson Robinson, Jr. (1899),	586,000.00	" . . . 30,008.20	" G. " 24,008.20		21,418.57
Arthur Botch (1895),	25,000.00	" . . . 1,280.00	" Sal. . 1,280.00		592,000.00
Gurdon Saltonstall (1901),	60,000.00	" . . . 3,072.00	" " . 3,072.00		25,000.00
Josiah Stickney (1899),	11,791.87	" . . . 603.75	" " . 603.75		60,000.00
Julia Amory Appleton Fellowship (1906),	25,530.62	" . . . 1,807.19			11,791.87
Bright Scholarship,		Trans. from Fd. 83.34	" Sch. . . 83.34		26,837.81
Francis H. Cummings Scholarship (1898),	7,291.86	Interest . . . 373.35	" " . 150.00		
Charles Eliot Travelling Fellowship (1915),	29,856.62	" . . . 1,528.68			7,515.21
					31,885.30
					1,138,751.00

SCHOOLS OF ENGINEERING AND MINING

Gordon McKay Endowment (1909), \$2,668,164.15	Gift Cap. .	\$144,434.57	Cap. Loss .	\$58.34	
	Interest .	137,998.69	Coll. Sal. .	3,666.83	
			Eng. G. Ex. .	54,815.86	
			Gr. Bus. Sal.	3,750.00	
			B. I. G. Ex.	10,783.65	\$2,871,928.23
Professorship of Engineering (1947), .	40,805.73	" . . .	2,089.27	Engin. G. Ex.	2,089.27
Edward Whitney Bequest (1916),	12,142.00	" . . .	621.67	Eng. G. Ex. .	621.67
Harvard Engineering Society of New York Scholarship (1908) (balance),	1,342.90	" . . .	56.67		
		Loans repaid	75.00		
Hennen Jennings Scholarship (1898),	18,545.85	Interest . . .	698.56		
Lawrence Scientific School Loans Repaid Fund ,	15,787.39	" . . .	489.91		
		Loans repaid .	1,135.40		
Henry Weidemann Locke Scholarship . Gift (balance),	210.80	Interest . . .	10.75		
Susan B. Lyman Loan Fund (L.S.S.),	445.97	Trans. from Fd.	102.21		
Stuart Wadsworth Wheeler (1898),	11,613.14	Interest . . .	594.59		
		Loans repaid .	42.40		
Gift Ernest B. Dane — Research in Sanitary Engineering ,	1,124.01	Interest . . .	32.19	Engin. Sp. Ex.	141.64
Gift for Laboratory of Metallurgical Chemistry ,	18.97				
Gift Summer course Mining Camp , . .	1,114.12	" . . .	33.30	Mining "	"
Amounts carried forward,	\$21,850,137.18				
					\$38,881,927.39

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

	Principal, July 1, 1918	Receipts	Expenditures	Surplus June 30, 1919	Principal, Totals
Amounts brought forward, \$31,850,197.18					\$33,831,937.39
Business School Endowment (1912),	65,230.00	Interest . .	\$3,339.36	Gr.Bus.G.Ex. \$3,339.36	65,230.00
Edmund Cogswell Converse Professorship of Banking (1912),	135,674.90	" . . .	6,946.56	" " Sal. . 6,884.56	135,674.90
		" . . .	6,400.00	" " Sp.Ex. 63.00	135,674.90
James J. Hill (1915),	125,000.00	" . . .	6,400.00	" " G. " 6,400.00	125,000.00
James J. Hill Professorship of Transportation (1915),	127,872.04	" . . .	6,547.05	.....	127,872.04
Isidor Straus Memorial (1912),	10,048.78	" . . .	514.51	" " Sal. . 514.51	10,048.78
Deficit Fund,	700.00	Gifts . . .	9,100.00	" " G.Ex. 9,600.00	700.00
Business School Loan Fund,	1,678.23	Interest. . .	44.86	.....	1,678.23
		Loans repaid	1,343.07	" " L. F. 643.03	1,343.07
Business School Publication Fund, . .	124.87	.....	.....	.....	124.87
Bureau of Business Research—American National Retail Jewelers' Association Fund, . . . . .	.....	.....	.....	" " Sp.Ex. 691.96	.....
Bureau of Business Research Publication Fund,	504.73	Interest. . .	19.37	.....	504.73
		Sales . . .	1,568.37	" " " 1,048.30	1,048.07
Gift for Books on Transportation, . .	321.56	.....	.....	" " " 18.95	308.31
Gift of P. E. Fitzpatrick for Books, . .	109.39	Gift . . .	75.00	" " " 99.78	84.61
Gift for Hodgson Prize,	25.00	.....	.....	.....	25.00
Gift of George B. Leighton, for binding books, . . . . .	.25	.....	.....	.....	.25

Gift for George O. May Prizes, . .	.....	Gr. Bus. Prize	150.00	Dr. 150.00	.....
Gift of Frederick L. and John C. Olmsted, Books on Accounting, .	202.61	Gift	50.00	" " Sp.Ex.	92.39
Gifts for Printing Courses, . . . .	.....	Gifts	1,325.00	" " " "	1,325.00
Gift of Warren D. Robbins — South American Course,	30.78	.....	" " " "	" " " "	29.80
Gift for Books and other Material on Scientific Management,	2.15	.....	" " " "	" " " "	2.15
Gift of John B. Simpson for Books, .	80.99	.....	" " " "	" " " "	54.88
Gift of Joseph E. Sterrett, Books on Accounting,	270.37	.....	" " " "	" " " "	227.98
					<u>475,042.53</u>

MUSEUM OF COMPARATIVE ZOOLOGY

51 Alexander Agassiz Bequest (1910),	\$39,500.00	Interest . . . \$3,046.40			
		Allowance from Univ. . .	2,048.00	M.C.Z.G.Ex.	\$5,094.40
Alexander Agassiz Bequest for Publications (1910),	86,631.79	Interest . . .	4,451.17	" Sp."	602.00
Agassiz Memorial (1875),	297,983.10	" . . .	15,254.17	" G."	15,254.17
George R. Agassiz (1911),	50,000.00	" . . .	2,560.00	" " "	2,560.00
George R. Agassiz Special (1912), .	50,000.00	" . . .	2,560.00	" " " "	2,560.00
Louis Cabot (1917),	5,216.62	" . . .	267.11	" Sp."	25.80
Virginia Barret Gibbs Scholarship (1892),	6,819.59	" . . .	349.18	.....	.....
Gray Fund for Zoological Museum (1869),	50,000.00	" . . .	2,560.00	" G."	2,560.00
Amounts carried forward, \$22,964,100.52					<u>\$650,540.76</u>
					\$23,856,969.92

MUSEUM OF COMPARATIVE ZOOLOGY (continued)

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, June 30, 1919</i>	<i>Totals</i>
Amounts brought forward, \$22,964,100.52					\$650,540.76	\$23,856,969.92
Sturgis Hooper (1865),	107,286.21	Interest . . . \$5,490.48	M. C. Z. Sp. Ex. \$4,250.00	.....	108,476.69	
Humboldt (1869),	8,585.54	" . . . 437.08	" " " 55.00	.....	8,917.57	
Willard Peele Hunnewell (1901),	5,605.49	" . . . 286.98	" " " 286.98	.....	5,605.49	
Permanent (1859),	117,469.34	" . . . 6,014.41	" G. " 6,014.41	.....	117,469.34	
Teachers' and Pupils' (1875),	7,594.01	" . . . 388.81	" " " 388.81	.....	7,594.01	
Maria Whitney (1907),	6,650.90	" . . . 340.53	" Sp. " 94.33	.....	6,897.10	
Maria Whitney and James Lyman Whitney (1912),	419.80	Gift Cap. . . . 56.19				
		Interest . . . 28.50			499.49	
Gifts for Current Use, . . . . .	.....	Gifts 1,550.00	" G. " 1,550.00	.....	.....	906,000.45

GERMANIC MUSEUM

Germanic Museum (1909),	\$10,013.52	Interest . . . \$512.72	Ger. Mus. Ex. \$512.72	.....	\$10,013.52	.
Germanic Museum Building (1908),	38,061.79	" . . . 748.95	F. & G. Sp. 840.68	.....	37,970.06	
Germanic Museum Endowment (1909),	72,795.90	" . . . 8,737.15	Ger. Mus. Ex. 708.71	.....	76,814.84	
Emperor William (1906),	26,335.00	" . . . 1,348.35	" " " 1,348.35	.....	26,335.00	
Hugo Reisinger Bequest (1916),	27,954.86	Gift Cap. . . 12,821.92				
		Interest . . . 1,942.07			42,718.85	
Gift for work of art,	281.86	.....			281.86	
Gifts for Collections for Germanic Museum,	322.52	.....			322.52	193,456.16

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY

Henry W. Haynes Bequest (1912),	\$1,000.00	Interest . . .	\$51.20	P. M. G. Ex. .	\$51.20	.....	\$1,000.00
Hemenway Fellowship (1891), . .	14,021.10	" . . .	717.88	" Sp. "	1,250.00	.....	13,488.98
Mary Hemenway Fund for Archaeology (1910),	45,658.31	" . . .	2,337.69	" " "	2,000.00	.....	45,996.00
Francis Cabot Lowell Memorial (1912),	1,000.00	" . . .	51.20	" G. "	51.20	.....	1,000.00
Peabody Building (1866),	28,355.56	" . . .	1,484.68	" " "	1,484.68	.....	28,355.56
Peabody Collection (1866),	47,335.10	" . . .	2,478.38	" " "	2,478.38	.....	47,335.10
Peabody Professor (1866),	47,335.10	" . . .	2,478.38	" " "	2,478.38	.....	47,335.10
Frederic Ward Putnam (1915),	213.34	" . . .	10.91	" . . . . .	.....	.....	224.25
Thaw Fellowship (1890),	30,205.00	" . . .	1,204.61	" Sp. "	1,206.69	.....	30,202.92
Henry O. Warren Exploration (1899),	10,204.55	" . . .	522.50	" " "	95.70	.....	10,631.35
Susan Cornelia Warren (1902),	5,000.00	" . . .	256.00	" G. "	256.00	.....	5,000.00
Robert O. Winthrop Scholarship (1895),	7,060.98	" . . .	361.53	" . . . . .	.....	.....	7,422.50
Huntington Frothingham Wolcott (1891),	20,988.52	" . . .	1,074.64	" Sp. "	1,163.00	.....	20,900.16
Gifts for current use,	1,763.18	Gifts	616.00				
		Interest . . .	35.26				
		Other receipts	244.37	" " "	300.00	.....	2,458.81
<hr/> Amounts carried forward, \$28,653,518.00							<hr/> 261,850.73
							<hr/> \$25,217,777.25

MEDICAL SCHOOL

<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, June 30, 1919</i>	<i>Totals</i>
Amounts brought forward, \$23,658,518.00					
Harvard Medical Alumni (1907), 9,801.19	Gift Cap. . . \$1,902.80				\$25,317,777.35
	Interest . . . 501.81			\$12,205.80	
Anonymous Fund in the Department of Theory and Practice (1906), 10,368.78	" . . . 530.64	Med. Sal. . . 530.64		10,368.78	
Edward Austin (Bacteriological Laboratory) (1899), 10,788.24	" . . . 552.34	" Sp. Ex. . . 211.58			11,129.00
Edward M. Barringer (1881), 30,371.54	" . . . 1,549.98	" G. " . . 1,049.98			30,371.54
Francis Bartlett Free Bed (1914), 5,000.00	" . . . 256.00	" Sp. " . . 256.00			5,000.00
Robert C. Billings (1900), 100,000.00	" . . . 5,000.00	" G. " . . 5,000.00			100,000.00
J. Ingersoll Bowditch (1889), 10,041.58	" . . . 514.15	" Sp. " . . 370.35			10,185.38
Boylston Fund for Medical Books (1800), 1,965.22	" . . . 100.61				2,065.83
Brinkerhoff Fund (1911), 5,382.40	" . . . 275.56	" Sal. . . 500.00			5,157.96
John B. and Buckminster Brown Endowment (1896), 69,137.54	" . . . 3,499.11	Cap. Loss . . 2,600.00			
		Med. Sal. . . 3,000.00			66,956.65
Bullard Professorship of Neuro- pathology (1906), 86,596.38	Gift Cap. . . 1,164.53				
	Interest . . . 4,449.23	" . . 4,304.77			87,905.37
Herbert L. Burrell (1914), 5,909.85	" . . . 302.59				6,212.44
Memorial Cancer Hospital Endowment (1910), 184,858.35	" . . . 6,904.78	" Sp. Ex. . . 3,801.83			187,961.80

Memorial Cancer Hospital New Laboratory Fund (1917),	20,922.09	Interest . . .	886.88	.....	.....	21,768.97
Memorial Cancer Hospital Proctor Maintenance (1912),	9,419.25	" . . .	376.77	Med. Sp. Ex.	376.77	9,419.25
Memorial Cancer Hospital Research Fund,	11,458.99	" . . .	458.86	" "	458.86	11,458.99
Memorial Cancer Hospital Subscriptions for current expenses, . . . .	.....	Gifts . . .	15,588.00	" "	15,588.00	.....
Colburn (1919), . . . . .	.....	Gift Cap. . .	97,052.50	.....	.....	.....
		Interest . . .	2,246.80	.....	.....	99,298.80
T. Jefferson Coolidge for Cancer Research (1915),	2,000.00	" . . .	102.40	" "	102.40	2,000.00
Caroline Brewer Croft (1899), . .	92,025.00	" . . .	4,711.68	" "	4,711.68	92,025.00
Dr. John C. Cutter Bequest (1910),	15,955.11	" . . .	816.84	" "	213.59	
		Royalties . .	9.87	F. & G. Sp.	428.20	16,139.53
Dr. Henry Isaiah Dorr Chair of Research and Teaching in Anesthetics and Anaesthesia (1917), . .	100,000.00	Interest . . .	3,950.00	Annuities .	3,950.00	100,000.00
Thomas Dwight Memorial (1912),	13,196.44	" . . .	675.64	Med. Sp. Ex.	575.00	13,297.08
Calvin and Lucy Ellis (1899),	404,683.33	" . . .	22,410.08	" Sal.	21,289.58	405,808.83
William Endicott (1915),	25,000.00	" . . .	1,280.00	" Sp. Ex.	1,280.00	25,000.00
George Fabyan Foundation for Comparative Pathology (1906), . .	235,540.02	" . . .	12,059.65	" Sal. . .	5,000.00	
		" . . .		" Sp. Ex.	3,000.00	239,599.67
George Fabyan Foundation Special (1910),	12,858.95	" . . .	658.38	.....	.....	13,517.33
Amounts carried forward, \$25,076,683.75						\$1,584,794.00
						\$25,217,777.25

Henry Jackson Endowment (1903),	104,733.18	Interest . . .	5,362.33	Med. Sal. . .	3,000.00	.....	106,192.73
Hamilton Kuhn Memorial (1908),	192,235.94	" . . .	9,842.47	" Sp. Ex.	902.78	.....	192,728.06
Walter Augustus Leconte Pro- fessorship of Otology (1907), . . .	55,865.66	" . . .	2,860.34	" Sal. . .	1,400.00	.....	57,276.78
Maria D. Lockwood Memorial (1915),	50,728.58	" . . .	2,597.33	" Sp. Ex.	49.23	.....	50,728.58
Harriet Newell Lowell (1907), .	935.23	" . . .	17.99	" " "	2,597.33	.....	821.54
Medical Library (1873),	2,732.52	" . . .	139.93	" " "	131.67	.....	2,872.45
James C. Melvin Fund for Tropi- cal Medicine (1918), . . . . .	.....	Gift Cap. . .	50,000.00	.....	.....	.....	51,486.90
George von L. Meyer Bequest (1919), . . . . .	.....	Interest . . .	1,486.90	.....	.....	.....	.....
Charles S. Minot (1915),	2,333.02	Gift Cap. . .	2,500.00	" " "	32.61	.....	2,500.00
Julia M. Moseley (1915),	23,250.00	Interest . . .	32.61	" " "	.....	.....	2,452.47
William O. Moseley (1897), . .	54,933.80	" . . .	119.45	" " "	.....	.....	23,250.00
New Subscription (1888),	38,850.00	" . . .	875.00	" " "	875.00	.....	55,601.99
Lyman Nichols (1907),	10,020.18	" . . .	2,812.62	Sal. . .	2,144.43	.....	38,850.00
George F. Parkman (Medical) (1910),	8,581.40	" . . .	1,989.12	" G. Ex.	1,989.12	.....	10,020.18
Gift for Pathological Laboratory, . . .	6,949.08	" . . .	513.02	" " "	513.02	.....	8,620.75
Clara Endicott Payson Memo- rial Free Bed Fund (1911),	5,000.00	" . . .	439.35	Sal. . .	400.00	7,288.62
		" . . .	355.79	" Sp. Ex.	16.25	5,000.00
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Amounts carried forward, \$26,104,393.06 \$2,628,397.50 \$25,217,777.25							

MEDICAL SCHOOL (continued)

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals</i>
Amounts brought forward, \$26,104,893.06					\$2,638,897.50 \$25,217,777.35
Henry L. Pierce (Residuary					
(1898),	39,216.62	Interest . . . \$2,007.91	Med. G. Ex. \$2,007.91	.....	39,216.62
Proctor (1903),	51,188.73	" . . . 2,620.88	" Sp. " 2,000.00	.....	51,809.61
Emily J. Proctor Gift (1914),	2,500.51	" . . . 128.05	.....	.....	2,628.56
Maurice Howe Richardson Me-					
morial (1915),	3,175.00	" . . . 162.56	.....	.....	3,337.56
John D. Rockefeller Gift (1902),	1,000,000.00	" . . . 51,200.00	" G. " 51,200.00	.....	1,000,000.00
Dr. Ruppner (1897),	9,335.94	" . . . 478.00	" " 478.00	.....	9,335.94
School of Comparative Medicine (1899),	7,792.79	" . . . 399.00	.....	.....	8,191.79
== Gardiner Hubbard Scudder					
(1914),	10,036.92	" . . . 513.89	Annuity . . 517.32	.....	10,038.49
Henry Francis Sears Fund for					
Pathology (1907),	35,169.98	" . . . 1,800.70	Med. Sal. . . 500.00	.....	35,000.00
Frederick C. Shattuck (1916),	131,842.82	" . . . 6,750.81	" Sp. Ex. 1,470.68	.....	138,592.63
George C. Shattuck (1853),	102,090.50	" . . . 5,072.01	" Sal. . . 5,000.00	.....	102,162.51
James Skillen Memorial Fund					
(1907),	11,311.10	" . . . 579.12	" G. Ex. 250.00	.....	11,640.22
Francis Skinner (1914),	43,561.74	" . . . 2,197.56	" " 2,197.56	.....	43,561.74
James Stillman Professorship					
(1909),	119,526.89	" . . . 6,119.78	" Sal. . . 6,000.00	.....	119,646.87
Surgical Laboratory (1897),	5,000.00	" . . . 256.00	" Sp. Ex. 239.08	.....	5,016.92
Mary W. Swett (1884),	15,765.11	" . . . 807.17	" G. " 807.17	.....	15,765.11

Samuel W. Swett (1884),	20,000.00	Interest . . .	1,024.00	Med. G. Ex.	1,024.00	.....	20,000.00
William H. Thorndike (1895), .	6,059.19	" . . .	310.22	" . . .	.....	.....	6,059.41
Quincy Tufts (1879),	2,000.00	" . . .	102.40	" " "	102.40	.....	2,000.00
Zoe D. Underhill Research (1912),	10,040.00	" . . .	514.05	" Sp. "	554.05	.....	10,000.00
Warren Fund for Anatomical Museum (1848),	15,889.43	" . . .	813.52	" " "	813.52	.....	15,889.43
James C. White Bequest (1916), .	5,332.96	" . . .	273.05	" . . .	.....	.....	5,606.01
Edward Wiggleworth Professorship of Dermatology (1907), .	61,508.10	" . . .	3,149.21	" Sal. . .	2,500.00	.....	61,885.31
Charles Wilder (1900),	54,014.24	" . . .	2,765.52	" Sp. Ex. .	472.00	.....	54,319.76
Henry Willard Williams (1898),	60,019.01	" . . .	3,072.97	" Med. Sal. .	1,242.90	.....	61,849.08
Morrill Wynan Medical Research (1915),	133,807.93	" . . .	7,021.16	" " "	6,781.16	.....	133,807.93
Gifts for salaries,	200.00	Gifts . . .	1,900.00	" Sp. Ex. .	240.00	.....	2,100.00
Harvard Medical Alumni Gifts, . . .	.....	.....	.....	" Sal. . .	2,400.00	Dr. \$2,400.00	.....
Aesculapian Club Gift — Medical School,	357.44	.....	.....	" Sp. Ex. .	180.95	.....	176.49
Gift for Recreation Grounds,	392.32	.....	.....	" " "	10.11	.....	382.21
Dept. of Anatomy — Gift for salary of artist,	822.58	Gift . . .	500.00	" " "	1,250.00	.....	72.58
Dept. Bacteriology — Gift, A.B.C. . .	264.73	.....	.....	" " "	195.42	.....	69.31
Dept. Bacteriology — Gift H. S. F., Assistant for Dr. Bowie,	184.77	.....	.....	" " "	180.00	.....	4.77
Dept. Bacteriology — Gift for salary of technician, . . . . .	.....	" . . .	720.00	.....	.....	.....	720.00
Amounts carried forward, \$38,068,299.21							\$4,594,389.16
							\$25,217,777.26

MEDICAL SCHOOL (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense June 30, 1919	Principal, June 30, 1919	Totals
Amounts brought forward, \$38,063,369.91					\$4,594,389.16	\$38,317,777.26
Dept. of Bacteriology—W. H. Walker						
Gift,	80.11	.....	Med. Sp. Ex. \$80.11	.....	.....	.....
Dept. of Bacteriology—John G. Wright Gift,	38.69	.....	" " 38.69	.....	.....	.....
Dept. Comparative Pathology—Gift for Investigation of Milk Infections, . .	817.81	Interest . . . \$32.71	.....	.....	850.52	
Dept. of Comparative Pathology—Gift of Mass. Society for Promoting Agriculture,	2,684.09	" . . . 107.36	.....	.....	2,791.45	
Dept. of Diseases of Nervous System—Gifts, William N. and Katherine E. Bullard,	206.69	Gift 500.00	" " 635.81	.....	70.88	
Dept. of Diseases of Nervous System—Gift Dr. W. N. Bullard for study of Pellagra,	749.42	Interest . . . 28.93	.....	.....	777.35	
Library—Duplicate Book Fund, . . .	617.37	" . . . 24.69	.....	.....	642.06	
" Gifts for Charles B. Porter Hall,	51.96	.....	.....	.....	51.96	
" Alpha Omega Alpha Gift, . .	16.00	.....	.....	.....	16.00	
Dept. of Ophthalmology—Gift, Laboratory of Physiological Optics, . .	66.24	.....	.....	.....	66.24	
Dept. Pathology—Gift Rockefeller Institute for Medical Research, . .	187.50	.....	.....	.....	187.50	
Dept. of Pathology—Morrill Wyman Gift,	49.22	.....	.....	.....	49.22	

Dept. of Physiology — Gift for wages of secretary,	Gift . . .	540.00	Med. Sp. Ex.	188.33	.....	851.67
Dept. of Preventive Medicine & Hygiene — Gift for Investigation of Infantile Paralysis,	8,289.29 Interest . . .	131.57	.....	.....	.....	8,420.86
Dept. of Preventive Medicine & Hygiene — Gift National Cannery Association for investigation of food poisoning, .	..... Gifts . . .	15,000.00	"	"	20,863.19 Dr.	\$5,863.19
Dept. of Preventive Medicine & Hygiene — Expenses of Instruction and Investigation in Industrial Hygiene, .	84,098.10 "	20,900.00	"	"	.....	.....
	Interest . . .	3,942.35	"	"	10,589.65	98,350.80
Dept. of Preventive Medicine & Hygiene — Industrial Hygiene, Study of Health Conditions in Dept. Stores, .	..... Gifts	3,150.00	.....	.....	.....	3,183.63
	Interest . . .	33.63	.....	.....	.....	.....
Dept. of Preventive Medicine & Hygiene — Gift for Publication of Journal of Industrial Health, . . . . .	..... Gifts	4,500.00	.....	.....	.....	2,508.82
	Interest . . .	50.01	"	"	2,046.19	.....
Dept. of Preventive Medicine & Hygiene — Gift for Research,	24,896.11 " . . .	750.54	"	"	300.00	25,711.21
	Sales	324.56	"	"	.....	.....
Dept. of Syphilology — Gift Aesculapian Club for research work,	190.00	.....	.....	.....	.....	190.00
Dept. of Surgery — Gifts for Surgical Library,	770.68 Interest . . .	30.83	.....	.....	.....	801.51
Amounts carried forward, \$28,182,048.19						\$4,784,408.84 \$35,217,777.25

MEDICAL SCHOOL (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense June 30, 1919	Principal, Totals June 30, 1919
Amounts brought forward, \$38,132,048.19					\$4,734,405.84 \$36,317,777.35
Dept. of Surgery—Gift for X-Ray Apparatus,	988.38	Interest . . . \$39.38	.....	.....	1,022.71
Dept. of Surgical Pathology—Gift of J. A. L. Blake,	8.17	.....	.....	.....	8.17
Repayments to Anatomical Laboratory,		Receipts . . 745.11 Med. Sp. Ex.	649.74	.....	95.37
Repayments to Bacteriological Laboratory,		" . . 143.00 "	143.00	.....	.....
Repayments to Biological-Chemical Laboratory,		" . . 1,028.86 "	1,028.86	.....	.....
Repayments to Comparative Pathological Laboratory,	760.48	Interest . . . 747.53	.....	.....	1,361.67
Repayments to Dept. of Medicine Laboratory,		" . . 44.48 "	290.93	.....	.....
Repayments to Neuropathological Laboratory,		Receipts . . 75.17 "	75.17	.....	.....
Repayments to Pathological Laboratory,	742.59	" . . 102.89	.....	.....	136.84
Repayments to Pharmacological Laboratory,		Interest . . . 14.47 "	722.81	.....	.....
Repayments to Physiological Laboratory,		Receipts . . 33.50 "	33.50	.....	.....
Repayments to Dept. of Preventive Medicine & Hygiene Laboratory,		" . . 53.77 "	53.77	.....	.....
		" . . 203.35 "	203.35	.....	.....
		" . . 22.63 "	22.63	.....	.....

	1920	.....	Med. Sp. Ex.	8.04	.....	118.16
Aesculapian Club Gift,	121.20					
Gift of the Committee of the Permanent Charity Fund Incorporated — re- search in nature, cause and treatment of disease, . . . . .	.....	Gift 10,000.00 Interest 26.30		.....	10,026.30	
Anonymous Gift for Investigation of Diabetes Mellitus,	67.38	.....		.....	67.38	
Gifts for Instruction in Military Science, Gift Expenses Surgical Unit—Amer. Ambulance Hospital in France, . .	1,000.00 1,769.75	" 40.00 .....		.....	1,040.00	
Gift for use of Infantile Paralysis Com- mission,	173.69	.....	" " "	1,769.75	.....	.....
Gifts for salaries, Huntington Hospital, Gift Research in Genetics under direc- tion of Cancer Commission,	2,338.32 320.00	Gifts 3,250.00	" " " " " "	11.01 3,750.00	.....	163.68 1,839.32
Gift for salary of technician — Huntington Hospital, . . . . .	.....	" . . . . . 1,840.00	" " "	.....	.....	320.00
Gift of Franklin W. Moulton to be expended under direction of Social Service Worker—Cancer Commission, Gift for wages of diener Animal Farm,	55.21	Gift 120.00 " 60.00	" " "	..... 40.00	.....	175.21 <u>20.00</u>
		FELLOWSHIP				4,750,698.65
Anonymous Gift for Teaching Fel- lowships in Histology and Embry- ology (balance),	8.32	.....		.....	\$8.32	
Amounts carried forward, \$38,190,391.68						\$8.32 \$39,968,470.90

MEDICAL SCHOOL

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals</i>
Amounts brought forward, \$28,653,518.00					\$25,317,777.35
Harvard Medical Alumni (1907),	9,801.19	Gift Cap. . . \$1,909.80			
		Interest 501.81			\$12,905.80
Anonymous Fund in the Department of Theory and Practice (1906),	10,363.78	" 530.64	Med. Sal. . . 530.64		10,363.78
Edward Austin (Bacteriological Laboratory) (1899),	10,788.24	" 553.34	" Sp. Ex. . . 211.58		11,129.00
Edward M. Barringer (1881),	30,271.54	" 1,649.93	" G. " . . 1,049.98		30,271.54
Francis Bartlett Free Bed (1914),	5,000.00	" 256.00	" Sp. " . . 256.00		5,000.00
Robert C. Billings (1900),	100,000.00	" 5,000.00	" G. " . . 5,000.00		100,000.00
J. Ingersoll Bowditch (1889),	10,041.58	" 514.15	" Sp. " . . 370.85		10,185.88
Boylston Fund for Medical Books (1800),	1,965.22	" 100.61			2,065.83
Brinkerhoff Fund (1911),	5,332.40	" 275.56	" Sal. . . . 500.00		5,157.96
John B. and Buckminster Brown Endowment (1896),	69,127.54	" 3,429.11	Cap. Loes. . . 2,600.00		
			Med. Sal. . . 3,000.00		66,956.65
Bullard Professorship of Neuro- pathology (1906),	86,596.38	Gift Cap. . . 1,164.53			
		Interest . . . 4,449.23	" 4,804.77		87,905.87
Herbert L. Burrell (1914),	5,909.85	" 303.59			6,212.44
Memorial Cancer Hospital Endowment (1910),	184,858.85	" 6,904.78	" Sp. Ex. . . 3,801.88		187,961.80

Memorial Cancer Hospital New Laboratory Fund (1917),	20,922.09	Interest . . .	836.88	.....	.....	21,758.97
Memorial Cancer Hospital Proctor Maintenance (1912),	9,419.25	" . . .	376.77	Med. Sp. Ex.	376.77	9,419.25
Memorial Cancer Hospital Research Fund,	11,458.99	" . . .	458.36	" "	458.36	11,458.99
Memorial Cancer Hospital Subscriptions for current expenses, . . . .	.....	Gifts . . .	15,588.00	" "	15,588.00	.....
Colburn (1919), . . . . .	.....	Gift Cap. . .	97,052.50	.....	.....	.....
		Interest . . .	2,246.30	.....	.....	99,298.80
T. Jefferson Coolidge for Cancer Research (1915),	2,000.00	" . . .	102.40	" "	102.40	2,000.00
Caroline Brewer Croft (1899), . .	92,026.00	" . . .	4,711.68	" "	4,711.68	92,026.00
Dr. John C. Cutter Bequest (1910),	15,955.11	" . . .	816.84	" "	213.59	.....
		Royalties . .	9.37	F. & G. Sp.	428.20	16,139.53
Dr. Henry Isalah Dorr Chair of Research and Teaching in Anesthetics and Anesthesia (1917), . .	100,000.00	Interest . . .	3,950.00	Annuities .	3,950.00	100,000.00
Thomas Dwight Memorial (1912),	13,196.44	" . . .	675.64	Med. Sp. Ex.	575.00	13,397.08
Calvin and Lucy Ellis (1899),	404,683.33	" . . .	22,410.08	" Sal.	21,389.58	405,808.83
William Endicott (1915),	25,000.00	" . . .	1,280.00	" Sp. Ex.	1,280.00	25,000.00
George Fabyan Foundation for Comparative Pathology (1906), . .	235,540.02	" . . .	12,069.65	" Sal.	5,000.00	.....
				" Sp. Ex.	3,000.00	239,599.67
George Fabyan Foundation Special (1910),	12,858.95	" . . .	658.38	.....	.....	13,517.33
Amounts carried forward, \$25,076,683.75						\$1,534,794.00
						\$26,217,777.25

MEDICAL SCHOOL (continued)

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Totals</i>
Amounts brought forward, \$25,076,688.75					
Charles F. Farrington (1909), . .	52,304.84	Interest. . . \$2,678.02	Med.Sal. . . \$1,000.00 “ Sp. Ex. 140.56		\$1,534,784.00
Lawrence Carteret Fenno (1911),	20,000.00	“ . . . 1,024.00	“ “ 1,024.00		53,842.30
Lawrence Carteret Fenno Memorial Free Bed Fund (1912), . .	5,000.00	“ . . . 256.00	“ “ 256.00		20,000.00
Samuel E. Fitz (1884),	1,886.08	“ . . . 94.00	G. “ 94.00		5,000.00
Flattery Research (1915),	11,800.00	“ . . . 800.00	Sp. “ 677.86 Cr.\$123.14		1,886.08
George W. Gay Lecture Fund Medical Ethics (1917),	1,051.50	“ . . . 53.86	“		11,800.00
Rebecca A. Greene (1911),	55,120.80	“ . . . 2,322.20	G. “ 2,322.20		1,105.36
F. B. Greenough (Surgical Research) (1901),	6,731.58	“ . . . 344.68	Sp. “ 543.83		55,120.80
George Higginson Professorship (1902),	110,535.47	“ . . . 5,661.95	Sal. . . 5,356.21		6,532.43
John Homans Memorial (1906), . .	52,239.80	“ . . . 2,674.69	“ . . 2,500.00		110,891.21
Franklin H. Hooper Memorial Free Bed Fund (1911),	5,000.00	“ . . . 256.00	Sp. Ex. 256.00		52,414.49
Amos Lawrence Hopkins Free Bed Fund (1913),	5,000.00	“ . . . 256.00	“ “ 256.00		5,000.00
Silas Arnold Houghton Assistant Professorship inBacteriology (1917),	25,177.67	“ . . . 1,289.12	Sal. . . 1,250.00		25,216.79
George S. Hyde (1913),	50,020.34	“ . . . 2,561.03	G. Ex. 2,561.03		50,020.34
Jackson Professorship of Clinical Medicine (1869),	69,192.65	“ . . . 3,542.68	Sal. . . 3,542.68		69,192.65

Henry Jackson Endowment (1908),	104,733.18	Interest . . .	5,362.33	Med. Sal. . .	3,000.00		
				" Sp. Ex.	902.78	.....	106,192.78
Hamilton Kuhn Memorial (1908),	192,285.94	" . . .	9,842.47	" Sal. &			
				Sp. Ex.	9,350.35	.....	192,728.06
Walter Augustus Leocompte Professorship of Otology (1907), . . .	55,865.66	" . . .	2,860.34	" Sal. . .	1,400.00		
				" Sp. Ex.	49.22	.....	57,276.78
Maria D. Lockwood Memorial (1915),	50,728.58	" . . .	2,597.33	" " "	2,597.33	.....	50,728.58
Harriet Newell Lowell (1907), .	935.22	" . . .	17.99	" " "	131.67	.....	821.54
Medical Library (1872),	2,732.52	" . . .	139.93	" " "	.....	.....	2,872.45
James C. Melvin Fund for Tropical Medicine (1918), . . . . .	.....	Gift Cap. . .	50,000.00				
		Interest . . .	1,486.90		.....	.....	51,486.90
George von L. Meyer Bequest (1919), . . . . .	.....	Gift Cap. . .	2,500.00				
		Interest . . .	32.61	" " "	32.61	.....	2,500.00
Charles S. Minot (1915),	2,338.02	" . . .	119.45	" " "	.....	.....	2,452.47
Julia M. Moseley (1915),	23,250.00	" . . .	875.00	" " "	875.00	.....	23,250.00
William O. Moseley (1897), . .	54,983.80	" . . .	2,812.62	" Sal. . .	2,144.43	.....	55,601.99
New Subscription (1888),	38,850.00	" . . .	1,989.12	" G. Ex.	1,989.12	.....	38,850.00
Lyman Nichols (1907),	10,020.18	" . . .	513.02	" " "	513.02	.....	10,020.18
George F. Parkman (Medical (1910),	8,581.40	" . . .	439.35	" Sal. . .	400.00	.....	8,620.75
Gift for Pathological Laboratory, . . .	6,949.08	" . . .	365.79	" Sp. Ex.	16.25	.....	7,288.62
Clara Endicott Payson Memorial Free Bed Fund (1911),	5,000.00	" . . .	256.00	" " "	256.00	.....	5,000.00
Amounts carried forward, \$26,104,893.06							\$2,623,397.50 \$26,217,777.25

MEDICAL SCHOOL (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense June 30, 1919	Principal, June 30, 1919	Totals
Amounts brought forward, \$26,104,893.06					\$3,633,397.50	\$26,317,777.35
Henry L. Pierce (Residuary)						
(1898),	39,216.62	Interest . . . \$2,007.91	Med. G. Ex. \$2,007.91		39,216.62	
Proctor (1903),	51,188.73	" . . . 2,630.88	" Sp. " 2,000.00		51,809.61	
Emily J. Proctor Gift (1914),	2,500.51	" . . . 128.05			2,628.56	
Maurice Howe Richardson Memorial (1916),	3,175.00	" . . . 162.56			3,337.56	
John D. Rockefeller Gift (1902),	1,000,000.00	" . . . 51,200.00	" G. " 51,200.00		1,000,000.00	
Dr. Ruppner (1897),	9,335.94	" . . . 478.00	" " 478.00		9,835.94	
School of Comparative Medicine (1899),	7,792.79	" . . . 399.00			8,191.79	
Gardiner Hubbard Scudder (1914),	10,036.92	" . . . 513.89	Annuity . . 517.32		10,033.49	
Henry Francis Sears Fund for Pathology (1907),	35,169.98	" . . . 1,800.70	Med. Sal. . . 500.00		35,000.00	
Frederick C. Shattuck (1916),	131,842.32	" . . . 6,750.31	" Sp. Ex. 1,470.68		138,592.63	
George C. Shattuck (1853),	102,090.50	" . . . 5,072.01	" Sal. . . 5,000.00		102,162.51	
James Skillen Memorial Fund (1907),	11,311.10	" . . . 579.12	" G. Ex. 250.00		11,840.22	
Francis Skinner (1914),	43,561.74	" . . . 2,197.56	" " 2,197.56		43,561.74	
James Stillman Professorship (1902),	119,526.89	" . . . 6,119.78	" Sal. . . 6,000.00		119,546.67	
Surgical Laboratory (1897),	5,000.00	" . . . 256.00	" Sp. Ex. 239.08		5,016.92	
Mary W. Swett (1894),	15,765.11	" . . . 807.17	" G. " 807.17		15,765.11	

MEDICAL SCHOOL (continued)

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals</i>
Amounts brought forward, \$38,063,269.91					\$4,594,389.16 \$38,217,777.35
Dept. of Bacteriology—W. H. Walker					
Gift,	80.11		Med. Sp. Ex. \$80.11		
Dept. of Bacteriology—John G. Wright Gift,	38.69		" " 38.69		
Dept. Comparative Pathology—Gift for Investigation of Milk Infections, . .	817.81	Interest . . \$32.71			850.52
Dept. of Comparative Pathology—Gift of Mass. Society for Promoting Agriculture,	2,684.09	" . . . 107.36			2,791.45
Dept. of Diseases of Nervous System—Gifts, William N. and Katherine E. Bullard,	208.69	Gift 500.00	" " 635.81		70.88
Dept. of Diseases of Nervous System—Gift Dr. W. N. Bullard for study of Pellagra,	748.42	Interest . . . 28.93			777.35
Library—Duplicate Book Fund, . . .	617.37	" . . . 24.69			642.06
" Gifts for Charles B. Porter Hall,	51.96				51.96
" Alpha Omega Alpha Gift, . .	16.00				16.00
Dept. of Ophthalmology—Gift, Laboratory of Physiological Optics, . .	66.24				66.24
Dept. Pathology—Gift Rockefeller Institute for Medical Research, . .	187.50				187.50
Dept. of Pathology—Morrill Wyman Gift,	49.23				49.23

Dept. of Physiology — Gift for wages of secretary,	Gift	540.00	Med. Sp. Ex.	188.33	.....	351.67
Dept. of Preventive Medicine & Hygiene — Gift for Investigation of Infantile Paralysis,	3,289.29 Interest . . .	131.57	.....	.....	.....	3,420.86
Dept. of Preventive Medicine & Hygiene — Gift National Cannery Association for investigation of food poisoning, . .	..... Gifts	15,000.00	" "	20,863.19 Dr.	\$5,863.19	.....
Dept. of Preventive Medicine & Hygiene — Expenses of Instruction and Investigation in Industrial Hygiene, .	84,096.10 "	20,900.00	" "	" "	.....	98,850.80
Dept. of Preventive Medicine & Hygiene — Industrial Hygiene, Study of Health Conditions in Dept. Stores, .	..... Gifts	3,150.00	" "	.....	.....	3,183.63
Dept. of Preventive Medicine & Hygiene — Gift for Publication of Journal of Industrial Health, . . . . .	..... Gifts	4,500.00	" "	.....	.....	2,503.82
Dept. of Preventive Medicine & Hygiene — Gift for Research,	24,886.11 "	750.54	" "	.....	.....	25,711.21
Dept. of Syphilology — Gift Aesculapian Club for research work,	190.00 Sales	324.56	" "	190.00
Dept. of Surgery — Gifts for Surgical Library,	770.68 Interest . . .	30.83	801.51
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Amounts carried forward, \$36,182,048.19						
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Total, \$4,784,406.84 \$36,217,777.26						

MEDICAL SCHOOL (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense June 30, 1919	Principal, Totals
Amounts brought forward, \$28,182,048.19				\$4,794,408.34	\$35,317,777.35
Dept. of Surgery — Gift for X-Ray Apparatus,	983.38	Interest . . .	\$39.38	.....	1,022.71
Dept. of Surgical Pathology — Gift of J. A. L. Blake,	8.17	.....	.....	.....	8.17
Repayments to Anatomical Laboratory, . . . . .	.....	Receipts . .	745.11 Med. Sp. Ex.	649.74	95.37
Repayments to Bacteriological Laboratory, . . . . .	.....	" . .	143.00 "	143.00	.....
Repayments to Biological-Chemical Laboratory, . . . . .	.....	" . .	1,028.86 "	1,028.86	.....
Repayments to Comparative Pathological Laboratory,	760.48	Interest . . .	44.48 "	290.82	1,261.67
Repayments to Dept. of Medicine Laboratory, . . . . .	.....	Receipts . .	75.17 "	75.17	.....
Repayments to Neuropathological Laboratory,	742.59	" . .	102.59	.....	136.84
Repayments to Pathological Laboratory, . . . . .	.....	Interest . . .	14.47 "	722.81	.....
Repayments to Pharmacological Laboratory, . . . . .	.....	Receipts . .	33.50 "	33.50	.....
Repayments to Physiological Laboratory, . . . . .	.....	" . .	53.77 "	53.77	.....
Repayments to Dept. of Preventive Medicine & Hygiene Laboratory, . . . . .	.....	" . .	203.35 "	203.35	.....
	.....	" . .	22.63 "	22.63	.....

[illegible]

MEDICAL SCHOOL (continued)

	Principal, July 1, 1918	Receipts	Expenditures	Suspense	Principal, June 30, 1919	Totals
Amounts brought forward, \$38,190,391.68						
Edward Hickling Bradford (1918),	28,088.78	Interest . . . \$1,282.00	Med. Sal. . .	\$1,135.00		\$8.32 \$39,968,470.90
Arthur Tracy Cabot Fellowship (1918),	27,455.76	" . . . 1,405.75	" . . .	800.00		25,195.78
James Jackson Cabot (1906), . .	12,462.68	" . . . 638.10	" . . .			28,061.51
Charles Follen Folsom Memo- rial (1908),	14,207.03	" . . . 727.40	" . . .	575.00		18,100.78
John R. Kissinger (1911), . . .	4,261.82	" . . . 218.16	" . . .			14,859.43
William O. Moseley, Jr. (1912), .	86,491.24	" . . . 4,428.84	" Fell. .	450.00		4,479.48
George Cheyne Shattuck Memorial (1891),	6,251.64	" . . . 320.10	" . . .			90,469.58
Henry P. Walcott (1910), . . .	30,173.42	" . . . 1,544.86	" . . .			6,571.74
Charles Elliot Ware Memorial (1891),	6,652.11	" . . . 340.58	" Sal. .	275.00		31,718.28
John Ware Memorial (1891), . . .	6,290.63	" . . . 322.10	" . . .			6,717.69
						6,612.73
						237,395.32

SCHOLARSHIP

Gordon Bartlett (1919),	Gift Cap. . . \$10,000.00					
	Interest . . . 212.48					\$10,212.48
Lucius F. Billings (1900), . . .	\$5,744.98	" . . . 294.14	Med. Sch. . .	\$250.00		5,789.07
John White Browne (1918), . . .	19,135.17	" . . . 1,184.91	" . . .			20,320.08
David Williams Cheever (1889), .	6,334.64	" . . . 324.35	" . . .	275.00		6,333.99
Loan Fund of the Medical Class of 1879,	638.46	" . . . 19.61	" . . .			
	Loans repaid	22.74				680.81

Cotting Gift (1900),	3,655.00	Interest . . .	187.14	Med. Sch. . .	150.00	.....	3,692.14
Frederic Shurtleff Coolidge (1916),	26.75		.....		.....	.....	26.75
Orlando W. Doe (1893),	3,424.25	" . . .	175.81	" . .	150.00	.....	3,449.56
Horace Putnam Farnham (1918),	.....	Gift Cap. . .	12,000.00				
		Interest . . .	459.52		.....	.....	12,459.52
John Foster Income for Medical							
Students (balance),	71.81	Trans. from Fd.	150.00	" . .	150.00	.....	.....
George Haven (1918),	24,649.79	Interest . . .	1,241.76	Trans. to Fd.	71.81	.....	24,791.55
Lewis and Harriet Hayden				Med. Sch. . .	1,100.00	.....	.....
(1894),	6,372.91	" . . .	321.18	" . .	275.00	.....	6,319.09
William Otis Johnson (1911), . .	4,507.54	" . . .	230.81	" . .	200.00	.....	4,538.35
Claudius M. Jones (1893), . . .	7,371.18	" . . .	377.39	" . .	335.00	.....	7,413.57
Alfred Hosmer Linder (1895), . .	6,074.70	" . . .	311.04	" . .	250.00	.....	6,135.74
Joseph Pearson Oliver (1904), . .	9,539.37	" . . .	491.47	" . .	255.00	.....	9,835.84
Charles B. Porter (1897),	6,315.48	" . . .	328.33	" . .	275.00	.....	6,868.81
Francis Skinner (1905),	5,351.76	" . . .	241.20	" . .		.....
		Loans repaid	12.75	" . .	600.00	.....	5,005.71
Charles Pratt Strong (1894), . . .	5,723.63	Interest . . .	298.07	" . .	250.00	.....	5,766.70
Isaac Sweetser (1892),	7,372.75	" . . .	377.50	" . .	.....	.....	7,750.25
John Thomson Taylor (1893), . .	5,399.99	" . . .	302.08	" . .	250.00	.....	5,952.07
Edward Wigglesworth (1897), . .	6,113.64	" . . .	318.04	" . .	250.00	.....	6,176.68
Anonymous Gift for Loans	150.00		.....		.....	.....	150.00
Anonymous Gifts for Loans to Medical							
Students, . . . . .	.....	Gifts	330.00			.....	330.01
		Loans repaid	50.01		.....	.....	159,592.77
Amounts carried forward, \$28,544,109.04							\$30,355,358.99

MEDICAL SCHOOL (continued)

<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Principal, June 30, 1919</i>	<i>Totals</i>
Amounts brought forward, \$28,544,109.04				\$30,355,355.99
PRIZE				
Boylston (1903),	Interest . . . \$307.61	.....	.....	\$6,816.08
M. Douglas Flatery (1918), . . .	" . . . 525.00	Med. Prize . . \$500.00	.....	7,525.00
Gift for Prize in Photochemistry, . . .	100.00	" " . . 100.00	.....	13,841.08

GRADUATE SCHOOL OF MEDICINE

Gifts Department of Tropical Medicine,	Gifts . . . \$14,750.00			
	Interest . . . 150.88			
	Sales pub'ls. 177.15	Med. Sp. Ex. \$6,084.84	.....	\$6,993.69

DENTAL SCHOOL

John D. Bryant (1913),	Interest . . . \$608.56	Dent.Sp.Ex. \$304.28	.....	\$12,189.90
Dental School Endowment (1880), . . .	" . . . 483.23	" G. " 483.23	.....	9,437.87
Dental School Endowment (1911), . . .	Gift Cap. . . 225.00			
	Interest . . . 1,384.45	" " 1,384.45	.....	27,265.00
Dental School Endowment of the Class of 1886 (1911),	50.00	" " 2.56	.....	50.00
Dental School Endowment of the Class of 1888 (1914),	100.00	" " 5.12	.....	100.00
Dental School Endowment of the Class of 1891 (1917),	20.00	Gift Cap. . . 80.00		
	Interest . . . 4.86	" " 4.86	.....	100.00

Dental School Endowment of the Class of 1893 (1918),	Gift Cap.	100.00	Dent. G. Ex.	5.03	100.00
	Interest	5.03			
Dental School Endowment of the Class of 1893 (1918),	"	5.12	" "	5.12	100.00
Dental School Endowment of the Class of 1901 (1918),	Gift Cap.	25.00			
	Interest . . . . .	.67	" "	.67	25.00
Dental School Endowment of the Class of 1904 (1918),	Gift Cap.	25.00			
	Interest . . . . .	.77	" "	.77	25.00
Dental School Endowment of the Class of 1907 (1914), . . . . .	" . . . . .	.51	" "	.51	10.00
Dental School Endowment of the Class of 1909 (1910),	"	2.56	" "	2.56	50.00
Harvard Dental Alumni Endow- ment (1906),	Gift	10.00			
	Interest	324.86	" "	324.86	6,945.88
Helen Collamore (1916),	"	517.12	" "	517.12	10,100.00
Maria Antoinette Evans Bequest (1919),	Gift Cap.	7,843.85			
	Interest	99.08	" "	99.08	7,843.85
Norman H. George Bequest (1919), Harriet Newell Lowell,	Gift Cap.	10,398.88			
	Interest	106.29	" "	106.29	10,398.88
	531.17	.....	" Sp.	531.17	.....
Amounts carried forward, \$28,623,387.50					\$88,980.83 \$80,878,193.76

DENTAL SCHOOL (continued)

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals</i>
Amounts brought forward, \$28,623,387.50					\$83,980.83 \$30,378,198.76
Katherine C. Pierce Endowment					
(1914),	10,511.86	Interest . . . \$538.21	Dent. G. Ex. \$538.21	.....	10,511.86
Proctor Bequest (1910),	500.00	" . . . 25.60	" " 25.60	.....	500.00
Mary F. Russell Bequest (1916), . .	5,000.00	" . . . 256.00	" " 256.00	.....	5,000.00
Joseph Warren Smith, Jr. Memorial (1909),	10,325.00	" . . . 538.64	" " 538.64	.....	10,325.00
Henry C. Warren Endowment (1889),	28,000.00	" . . . 1,177.60	" " 1,177.60	.....	28,000.00
Gifts for X-Ray Apparatus,	5.17	.....	.....	.....	5.17
					<u>183,823.86</u>

OBSERVATORY

Advancement of Astronomical Science (1901),	\$9,598.18	Interest . . . \$491.42				
		Obs. Surplus 336.47	Obs. Sp. Ex. \$6,211.93	.....		\$4,368.14
Advancement of Astronomical Science (1902),	20,000.00	Interest . . . 1,013.20	" G. " 1,013.20	.....		20,000.00
George R. Agassiz Gift, Revising Draper Catalogue,	661.24	" . . . 13.22	" Sp. " 674.46	.....		.....
Amory Astronomical Fund (1916), .	57,587.77	" . . . 2,948.51	.....	.....		60,536.28
Thomas G. Appleton (1884), . . .	5,000.00	" . . . 256.00	" G. " 256.00	.....		5,000.00
J. Ingersoll Bowditch (1889), . .	2,500.00	" . . . 128.00	" " 128.00	.....		2,500.00
Uriah A. Boyden (1887),	185,000.00	" . . . 9,472.00	" Sp. " 9,472.00	.....		185,000.00
Draper Memorial (1917),	22,500.00	Gift Cap. . . 7,500.00				
		" Income 4,000.00				
		Interest . . . 1,357.16	" " 5,357.16	.....		30,000.00

J. Rayner Edmonds Bequest (1911),	1,014.21	Interest . . .	51.92	Obs. G. Ex.	51.92	.....	1,014.21
Charlotte Harris (1877),	2,000.00	" . . .	102.40	" G. "	102.40	.....	2,000.00
Haven (1898),	45,000.00	" . . .	2,804.00	" " "	2,804.00	.....	45,000.00
James Hayward (1866),	21,000.00	" . . .	1,075.20	" " "	1,075.20	.....	21,000.00
Observatory Endowment (1882),	50,000.00	" . . .	2,560.00	" " "	2,560.00	.....	50,000.00
Paine Professorship (1886),	50,000.00	" . . .	2,560.00	" Sal. "	2,560.00	.....	50,000.00
Robert Treat Paine (1886),	273,932.07	" . . .	14,025.32	" G. Ex. "	14,025.32	.....	273,932.07
Edward B. Phillips (1849),	110,393.38	" . . .	5,647.06	" Sal. "	4,288.69	.....	111,652.24
Josiah Quincy (1866),	11,049.38	" . . .	565.71	" Sp. Ex. "	322.08	.....	10,792.86
David Sears (1845),	27,416.64	" . . .	1,403.75	" G. "	701.87	.....	28,118.52
David Sears (1916),	25,000.00	" . . .	1,280.00	" " "	1,280.00	.....	25,000.00
Augustus Story (1871),	13,380.00	" . . .	685.06	" " "	685.06	.....	13,880.00
Gift for publishing lunar photographs,	42.35	.....	.....	.....	.....	.....	42.35
Gift for Charles S. Hinchman Fellowship,	500.00	" . . .	20.00	.....	.....	.....	500.00
Marie Mitchell Fellowship,	507.56	" . . .	.....	" Sp. "	581.53	Dr. \$73.77	.....
E. C. Pickering Fellowship,	498.72	" . . .	559.34	" " "	459.22	.....	598.84
Gift to defray cost of publication of Vol. 91, Observatory Annals,	28.19	Gift . . .	73.81	.....	.....	.....	101.50
							940,452.01
BLUE HILL METEOROLOGICAL OBSERVATORY							
Waldo E. Forbes (1917),	\$6,000.00	Interest . . .	\$307.20	B. H. Obs. G. Ex.	\$307.20	.....	\$6,000.00
A. Lawrence Rotch Bequest (1913),	54,719.51	" . . .	2,801.66	" " "	2,888.17	.....	54,688.00
Almée Sargent Bequest (1918), . . . . .	.....	Gift Cap. . .	25,000.00	" " "	894.26	.....	25,000.00
Gifts for current expenses, . . . . .	.....	Interest . . .	894.26	" " "	894.26	.....	.....
		Gifts . . .	1,500.01	" " "	1,500.01	.....	85,638.00
Amounts carried forward, \$39,667,969.08							
							\$31,537,606.63

BUSSEY INSTITUTION

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals</i>
Amounts brought forward, \$29,667,959.08					\$31,587,606.68
Bussey Institution Endowment (1918), 138,804.00		Interest . . . \$6,825.16	B. I. G. Ex. \$6,825.16		\$133,804.00
Anna O. Ames Memorial Scholarship (1918),	10,591.88	" . . . 542.81	" Sch. 400.00		10,734.14
Mrs. William H. Bliss (1917), . .	51,750.00	" . . . 2,589.60	" " 1,125.00		53,214.60
Woodland Hill (1905),	20,658.86	" . . . 1,000.00	F. & G. Sp. 419.08	Cr. \$580.97	20,658.86
Priscilla Clark Hodges Scholarship (1907),	4,484.91	" . . . 227.07			4,661.98
Gift for Forestry Dept.,	561.00	" . . . 23.44			583.44
Gifts expenses experimental garden in Plant Genetics and additional furnishings for dormitory,	1,276.15	" . . . 51.05			1,327.20
					234,484.22

ARNOLD ARBORETUM

Arnold Arboretum (1899),	\$125,650.00	Interest . . . \$6,493.28	A. A. G. Ex. \$6,493.28		\$125,650.00
Arnold Arboretum Endowment (1917), 258,850.00		Gifts Cap. . . 4,598.40	" " " 13,072.08		258,448.40
		Interest . . . 18,072.03	" " " 8,068.57		166,102.37
James Arnold (1872),	165,678.23	" . . . 8,482.71	" " " 4,097.69		91,572.72
Arboretum Construction Gifts (balance), 80,083.18		Arb. Surplus 11,589.59	" " " 685.20		12,500.00
Robert Charles Billings (1904), .	12,500.00	Interest . . . 685.20	" " " 2,203.80		20,000.00
William L. Bradley (1897), . . .	20,000.00	" . . . 1,024.00	" Sp. " 118.17		2,808.08
Bussey Fund for the Arnold Arboretum (1903),	2,808.06	Sales . . . 1,179.80	" " " 139.28		2,525.00
Helen Collamore Bequest (1916), .	2,525.00	Interest . . . 118.17	" G. " 118.17		
		" . . . 129.28	" " " 139.28		

Maria Antoinette Evans Bequest (1919),	Gift Cap.	7,848.85			99.08		7,848.85
Massachusetts Society for Promoting Agriculture (1911),	Interest	99.08	A. A. G. Ex.				
Francis Skinner (1906),	Gift Cap.	500.00	" " "		422.20		8,500.00
Francis Skinner, Jr. Bequest (1915),	Interest	422.20	" " "				20,000.00
Sears Gift for Library,	"	1,024.00	" " "		1,024.00		10,000.00
Bayard and Ruth S. Thayer (1911),	"	512.00	" " "		512.00		694.48
Edward Whitney (1912),	"	14.26	" Sp. "		71.85		
Gifts for Expedition to Korea,	"	1,199.00	" G. "		1,199.00		25,000.00
Gifts for general purposes,	"	68.86	" " "				1,414.10
	"	25.47	" " "				
	Sales	197.80	" Sp. "		2,251.65		
	"		" " "		2,204.37		
	Gifts	23,145.00	" G. "		23,145.00		752,558.98
PHILLIPS BROOKS HOUSE							
Louise E. Bettens (1917),	Interest	\$136.40					\$2,900.79
Phillips Brooks House Endowment (1901),	"	537.96	Ph.Br.Ho.G.Ex.		\$537.96		10,506.66
Phillips Brooks House Association Endowment (1917),	"	4,017.81	" " "		3,600.00		78,880.02
Ralph H. Shepard (1900),	"	90.81	" " "		580.81		11,848.64
Ralph Hamilton Shepard Memo- rial (1898),	"	308.15	" " "		345.06		5,879.03
John W. and Belinda L. Randall (1897),	"	893.83					8,075.11
Amounts carried forward, \$30,788,990.44							\$32,682,185.08

WILLIAM HAYES FOGG ART MUSEUM

	Principal, July 1, 1918	Receipts	Disbursements	Principal, June 30, 1919	Totals
Amounts brought forward, \$30,738,990.44					
William Hayes Fogg (1892),	50,391.20	Gifts \$3,195.89 Interest 2,580.00	Expenditures		\$32,633,185.08
Gray Fund for Engravings (1858),	16,167.38	" 84.02	Fogg M.G.Ex. \$6,074.48		\$50,092.56
William M. Frichard (1898),	15,476.46	" 39.27	" " Sp. " 806.58		16,188.55
John Witt Randall (1892),	30,257.67	" 792.37	" " " 594.89		15,678.94
Gifts from the Society of Friends of the Fogg Art Museum,	144.64	Gifts 1,549.21	" " " 1,656.04		80,150.84
Interest		Interest 1,616.00			
Other receipts		Other receipts 22.65			
Gift of Samuel Sachs for water colors,		Gift 1,800.00	" " " 1,800.00		1,798.84
Gift of Mrs. Samuel Sachs for pur- chase of works of art,	145.14	" 2,500.00			
Interest		Interest 51.28			
Gift for purchase of water color by Sargent,	16.55		" " " 16.55		2,696.42
					116,601.15

STILLMAN INFIRMARY

Stillman Infirmary Gift (balance),	\$10,514.77	Interest \$538.37			\$11,053.14
Robert Charles Billings, for Still- man Infirmary (1908),	60,555.57	" 3,100.47	Still.Inf.G.Ex. \$3,100.47		60,555.57
Free Bed Fund of the Class of 1868 (1898),	6,376.79	" 328.50	" " " 328.50		6,376.79

Free Bed Fund for Stillman Infirmary (1900),	653.26	Interest . . .	33.43	Still. Inf. G. Ex.	33.43	653.26
Herbert Schurz Memorial Free Bed (1903),	4,633.38	" . . .	237.21	" "	237.21	4,633.38
Joseph and Lucius Tuckerman (1914),	10,000.00	" . . .	512.00	" "	512.00	10,000.00
Henry P. Walcott (1901),	3,204.16	" . . .	164.05	" "	164.05	96,476.80

CLASS FUNDS

Fund of the Class of 1834 (1887), .	\$2,520.73	Interest . . .	\$122.88			\$2,643.61
" " 1853 (1887), .	3,725.00	" . . .	167.63	F. & G. Sp.	\$167.63	3,725.00
" " 1854 (1914), .	3,700.71	" . . .	189.49			3,890.20
" " 1856 (1904), .	12,161.17	" . . .	622.64			12,783.81
" " 1857 (1916), .	5,000.00	" . . .	300.00	" "	300.00	5,000.00
" " 1858 (1912), .	1,960.18	" . . .	100.35			2,060.53
" " 1864 (1915), .	3,218.26	" . . .	164.76	" "	165.47	33,820.70

GIFTS FOR CONSTRUCTION

Arnold Arboretum Building Gifts, . .	\$1,332.56	Interest . . .	\$53.30			\$1,385.86
Gift for flag pole on Stadium in memory of Dr. Milton Bettman, . . .	520.00	" . . .	20.80			540.80
Gray Herbarium Gift for Construction, . .	1,223.49	" . . .	33.58	Gray Herb. Sp. Ex.	\$253.58	1,008.49
Gifts for New Gymnasium Building, . .	11,589.20	" . . .	445.74			12,034.94
High Voltage Electrical Laboratory, . .	4,476.16	" . . .	183.24	Coll. Sp. Ex.	100.00	4,509.40
Semitic Building (balance),	460.13	" . . .	764.57	Annuities . .	600.00	460.13
George Smith Bequest (1904), . .	14,932.99	" . . .	232.00			15,097.56
Gifts for Hospital—Department of Tropical Medicine,	5,800.03	" . . .				6,032.03
Amounts carried forward, \$31,020,148.02						\$32,919,597.44

SUNDRY

<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, June 30, 1919</i>	<i>Totals</i>
Amounts brought forward, \$31,020,148.02					
Edward Austin (1899),	Interest . . . \$25,852.31	Coll. Sal. . . \$6,205.59			
	Loans repaid 731.75	" Fell. . . 1,766.68			
		" Sch. . . 1,513.34			
		" B. F. . . 50.00			
		Arch. Sch. . . 290.00			
		Div. Sal. . . 500.00			
		Med. " . . 1,250.05			
		{ Trans. to			
		{ Coll. Sch.			
		{ Fd.			
Bright Legacy (1860),	Interest . . . 2,560.00	1,196.66			
		Arch. Sch. . . 33.94			
		Library Bks. . . 1,280.00			
Bussey Trust (1861),	" . . . 24,352.82	Div. Sal. . . 5,196.97			
		Law " . . 5,196.97			
		B. I. G. Ex. . . 10,393.95			
		Annuities . . 2,000.00			
		F. & G. Sp. . . 1,564.93			
Carnegie Foundation Retiring Allowance,	Gifts . . . 62,967.25	" . . 62,967.25			
Calvin and Lucy Ellis Aid (1899),	Interest . . . 8,947.51	Coll. Sal. . . 8,007.74			
		" B. F. . . 5.00			
		Dent. B. F. . . 487.89			
John Foster (1840),	" . . . 199.07				
	Tr. from Med. Fd. 71.81	Tr. to Med. Fd. 150.00			

Price Greenleaf (1887),	790,445.48	Interest	38,305.42	Trans. to Coll. Sch. }	3,000.00	
		Cap. Gain	120.00	Trans. to Lib. Books }	1,000.00	
				Trans. to Lib. G. Ex. }	18,152.71	
				Trans. to Coll. B. F. }	16,152.71	790,565.48
Henry Harris (1883),	29,939.38	Interest	1,532.88	U. Ex.	766.44	
				Med. G. Ex. . .	766.44	29,939.38
Harvard Memorial Society (1898), . .	1,853.85	"	94.22	F. & G. Sp. . .	74.53	1,874.24
William S. Murphy Scholarship (1916),	58,856.50	Gift Cap.	85.00	Law Sch.	420.00	
		Interest	2,757.78	Med. "	250.00	55,979.28
Robert Troup Paine (1890),	81,637.47	"	3,050.80			84,678.27
James Savage (1879),	42,000.00	"	2,150.40	Coll. Sch.	300.00	
				Lib. G. Ex. . . .	1,387.80	
				Obs. " "	462.60	42,000.00
Frederick Sheldon (1909),	418,592.84	Gift Cap.	901.62			
		Interest	21,595.22	Coll. Fell. . . .	2,343.44	488,746.24
Edward Wigglesworth Memorial (1909),	150,000.00	"	7,680.00	Ap. Chap. G. Ex. }	7,680.00	150,000.00
Anonymous Gifts for Botanical Museum,		Gift	1,500.00			
		Interest	21.53	Bot. M. Sp. Ex. }	1,521.53	
Gift for cases, Botanical Museum, . .	714.23	"	28.57	" " " }	200.00	542.80
Gifts for Gray Herbarium — current use,		Gifts	1,540.00	Gray Herb. " }	1,540.00	
Amounts carried forward, \$38,715,459.64						\$2,736,184.17
						\$2,919,597.44

	<i>Principal, July 1, 1918</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1919</i>	<i>Principal, Totals</i>
Amounts brought forward, \$38,715.45	64				
Gifts for Semitic Museum,	8,115.88	\$500.00		\$2,786,194.17	\$32,919,597.44
Interest		142.11			
					8,757.99
Gifts for Semitic Museum Collection					
(balance),	819.89	" . .	13.18 Sem. M. Sp. Ex.	\$221.00	612.07
Gift for Copying Cuneiform Tablets, . .	226.99		" "	100.00	126.99
Gifts for Excavations in Palestine					
(balance),	1,929.07	" . .	39.49 " "	57.40	1,811.16
Gifts for Chinese Students (balance), .	107.00				107.00
					2,742,099.88

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FUNDS IN TRUST FOR PURPOSES NOT CONNECTED WITH THE COLLEGE

[illegible]

SUMMARY:

Restricted uses, income only available	\$29,551,438.15
Restricted uses, principal and income available	1,866,405.39
Unrestricted uses, income only available	8,198,663.84
Unrestricted uses, principal and income available	1,087,480.71
	<u>\$35,683,978.09</u>

SCHEDULE 5, PART I

TABLE OF SIGNIFICANT INCREASES AND DECREASES

For the year ended June 30, 1919

	Increase	Decrease
Investments, total,	\$1,986,570.81	
Securities, Special,	\$495,506.45	
Securities, General,	1,139,850.02	
Land and Buildings, Special,	241,995.62	
Land and Buildings, General,	59,718.22	
General Suspense (see Schedule 5, Part II), . . .		\$13,976.80
Funds and Gifts (see Schedule 5, Part III), . . .	\$1,941,023.27	
Gains and Losses on General Investments sold, . .	\$22,225.62	
Income unapportioned,	1,214.69	
Income advanced,		\$3,446.75

SCHEDULE 5, PART II

SUMMARY OF CHANGES IN GENERAL SUSPENSE

Departments, activities, and funds having credit balances June 30, 1919,	\$281,496.62	
Departments, activities, and funds having credit balances June 30, 1918,	235,400.08	
Increase of credit balances,		\$46,096.54
Departments, activities, and funds having debit balances, June 30, 1919,	\$637,697.21	
Departments, activities, and funds having debit balances June 30, 1918,	605,577.47	
Increase of debit balances,		32,119.74
		<u>\$13,976.80</u>
Surpluses for the year carried to General Suspense,	\$59,519.17	
Advances returned, improvements Treasurer's Real Estate Investments,	19,415.60	
Other advances returned,	6,951.19	
Interest on credit balances,	3,561.95	
Other receipts,	28,750.00	
	<u>\$118,197.91</u>	
<i>Less</i> Deficits for year carried to		
General Suspense,	\$49,157.17	
Advances to Funds and Gifts,	49,903.94	
Advances for improvements, Treasurer's Real Estate Investments,	3,160.00	
Deposit returned,	2,000.00	104,221.11
		<u>\$13,976.80</u>

SCHEDULE 5, PART III

SUMMARY OF CHANGES IN FUNDS AND GIFTS

Gifts for Capital, Exhibit D, page 18,	\$1,322,553.44	
Gain on sale of Special Investments,	1,040.66	
Unexpended restricted income transferred to Funds and Gifts, Exhibit B, page 9,	373,102.18	
Other receipts,	268,736.82	
	<u>\$1,965,433.10</u>	
<i>Less</i> Adjustment in value of securities in Special Investments,	\$23,600.00	
Expenditures charged to Funds and Gifts,	809.83	24,409.83
		<u>\$1,941,023.27</u>

SCHEDULE 6, PART I
GENERAL SUSPENSE

CREDIT BALANCES

July 1, 1918	June 30, 1919	June 30, 1919
\$3,637.77 Cryptogamic Herbarium,		\$4,328.85
11,145.45 Gray Herbarium,		12,254.88
3,583.65 Graduate School of Business Administration,		5,567.50
5,938.66 Graduate Schools of Applied Science,		6,280.84
8,968.72 Divinity School,		23,973.44
70,252.86 Law School,		79,590.80
6,865.19 Graduate School of Medicine,		12,055.79
27,295.16 Museum of Comparative Zoölogy,		32,389.29
4,501.95 Peabody Museum of American Archaeology and Ethnology,		5,691.24
7,902.73 Germanic Museum,		10,098.97
765.73 Botanical Museum,		774.90
458.76 Botanic Garden,
302.80 Forestry Operations at Petersham, Mass.,		815.28
..... Laboratory Fees, Anthropology,		2.50
219.38 " " Astronomy,		474.97
26.37 " " Botany (Fernald),		39.70
139.35 " " Botany (Thaxter),		131.13
..... " " Chemistry,		1,590.92
35.93 " " Forestry,		35.93
761.17 " " Geology,		606.08
.10 " " Hygiene and Sanitation, . . . . .		.10
308.50 " " Zoölogy,		253.15
1,613.73 Microscope Fees, Medical School,		2,343.26
2,000.00 Class of 1893, Twenty-fifth Anniversary Fund,
1,234.89 War Hero Memorial,		1,296.63
7,497.00 Harvard Coöperative Society Deposit,		7,497.00
24,278.33 Foxcroft House Fire Account,		25,492.24
45,726.00 Dane Hall Fire Account,		48,012.80
<u>\$285,400.08</u>		<u>\$281,496.62</u>

SCHEDULE 6, PART II

GENERAL SUSPENSE

DEBIT BALANCES

July 1, 1918	June 30, 1919	June 30, 1919
	Advances from General Investments to:	
.....	Aids, general,	\$3,950.00
.....	Amory Estate,	3,160.00
\$90.00	Anonymous Gift for Scholarship, . . . . .	.....
.....	Botanic Garden,	3,621.53
.....	Bureau Business Research — American National Retail Jewelers' Association,	691.96
58,536.44	Bussey Trust (Real Estate),	54,396.22
73.47	Classical Publication Fund of the Class of 1856, . . . . .	.....
65.00	Class of 1898 Tree Fund, . . . . .	.....
.....	Committee on Economic Research,	4,324.95
52,531.31	Dental School,	70,200.71
104,020.26	Dental School Building,	104,020.26
757.91	Charles Dexter Memorial, . . . . .	.....
.....	Dept. of Education — Bureau of Vocational Guidance,	563.00
9,131.76	Estate 128-136 Federal St.,	8,560.26
14,413.59	" 364-366 Washington St.,	13,413.59
89.88	Gift for expenses development plan of the University, . . . . .	.....
122.14	Flattery Research Fund, . . . . .	.....
11.04	George A. Gardner Fund, . . . . .	.....
84,061.83	Gerrish Block,	26,471.95
246.16	Walcott Gibbs Endowment,	591.74
.....	Dept. of Government — Gift for Publishing Expenses,	591.11
100.00	Harvard Club of Cleveland Scholarship, . . . . .	.....
50.00	" " Fall River " . . . . .	.....
50.00	" " Louisiana " . . . . .	.....
150.00	" " New Hampshire Scholarship,	150.00
300.00	" " St. Louis " . . . . .	.....
50.00	" " Syracuse " . . . . .	.....
505.00	Harvard Economic Studies, . . . . .	.....
.....	Harvard Medical Alumni Gifts,	2,400.00
40,538.16	Harvard University Press,	57,923.87
.....	Charles W. Hubbard Fund,	46.74
307.27	W. Frederick Kimball Bequest,	322.27
104.09	Loan to Officer,	109.04
.....	Gift George O. May Prizes,	150.00
52,200.89	Medical School,	18,556.19
575.73	Medical School, Gift of National Canners Association,	6,438.92
.....	Maria Mitchell Fellowship,	78.77
2,000.00	Old Boston Music Hall Estate,	1,000.00
\$371,061.93	.. Amounts carried forward,	\$381,728.08

July 1, 1918	June 30, 1919
\$371,081.93 . . . Amounts brought forward,	\$381,728.08
118.87 Philadelphia Scholarship,	203.54
..... Physical Laboratory Endowment,	1,001.67
611.02 Summer Schools,	461.49
440.51 Ambrose Talbot Bequest,	121.97
..... John E. Thayer Fund,	220.00
30.44 Henry Warren Torrey Fund,	4,827.94
210.00 Walter R. Tower Fund,	187,915.68
7,527.94 Townsend Estate,	18,595.45
187,915.68 Tunnel for steam pipes to College Buildings,	15,000.00
21,009.45 Webb Estate,	7,799.66
..... Hervey E. Wetzel Bequest, . . . . .	.....
8,380.63 Woodland Hill Fund, . . . . .	.....
2,615.44 Laboratory Fees, Chemistry, . . . . .	.....
15.45 " " Mineralogy, . . . . .	.....
Library Funds:	
22.56 Horace Davis Bequest, . . . . .	.....
..... R. M. Hodges, . . . . .	.76
..... Sales,	6.00
..... Julian Palmer Welsh Memorial,	6.89
5,597.60 Evert Jansen Wendell Fund,	19,808.13
<u>\$605,577.47</u>	<u>\$637,697.21</u>
Debit balances,	\$637,697.21
Credit balances,	281,496.62
Net debit balance to Exhibit A, page 6 .	<u>\$356,200.59</u>

UNIVERSITY

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of the following Funds :

Charles Allen,	\$153.60
Walter F. Baker,	4,142.54
William H. Baldwin, Jr.,	102.40
Band Music,	58.53
Caroline M. Barnard Bequest (part),	2,439.37
John Barnard,	34.15
J. Arthur Beebe Bequest (part),	8,561.53
Andrew Bigelow,	253.44
Stanton Blake,	256.00
S. Parkman Blake and Robert Parkman Blake Memorial,	2,560.00
Charlotte F. Blanchard,	173.07
Samuel D. Bradford,	268.80
Martin Brimmer,	670.00
Godfrey L. Cabot,	420.81
James C. Carter,	2,605.82
John W. Carter,	452.98
Fund of the Class of 1842,	7.99
Class of 1881,	5,882.83
" 1882,	5,120.00
" 1883,	4,999.99
" 1888,	4,721.70
" 1889,	5,022.00
" 1890,	4,403.20
" 1891,	5,120.00
" 1892,	3,500.00
" 1893,	4,732.16
" 1894,	870.66
" 1896,	1,181.39
" 1899,	1,711.87
John Coggan,	76.80
Edwin Conant,	54.37
Thomas Cotton,	7.94
John Cowdin,	1,243.87
George B. Dorr,	4,199.45
George Draper,	1,754.98
R. H. Eddy,	2,056.61
Harvard Ellis,	5,182.72
Richard W. Foster,	280.31
Amount carried forward,	\$85,383.83

UNIVERSITY (CONTINUED)

INCOME

Amount brought forward,	\$85,283.83	
Income of the following Funds (<i>continued</i>).		
John Davis Williams French,	198.01	
Gore,	275.65	
John C. Gray,	905.55	
Samuel S. Greeley Bequest,	43.93	
Henry Harris ($\frac{1}{4}$ income),	766.44	
Harvard Foundation for Exchanges with French Universities,	1,804.23	
Walter Hastings,	763.81	
Henry L. Higginson,	2,086.25	
Thomas Hollis,	26.62	
Thomas Hubbard,	51.20	
Nathaniel Hulton,	22.73	
Thomas Hutchinson,	11.93	
George Baxter Hyde,	256.00	
Leonard Jarvis,	611.23	
Henry P. Kidder,	134.00	
Joseph Lee,	362.40	
Morris Longstreth Bequest,	1,208.83	
Theodore Lyman,	512.00	
Robert C. McIlwain Bequest,	395.16	
Henry T. Morgan,	1,931.98	
Israel Munson,	570.61	
Henry S. Nourse (part),	1,675.78	
Francis E. Parker,	4,121.63	
George F. Parkman,	1,280.00	
William Perkins,	1,536.00	
President's,	3,305.78	
Ezekiel Rogers,	180.99	
Daniel Russell,	77.52	
John L. Russell,	1,196.54	
Richard Black Sewall,	935.50	
Isaac Sweetser,	2,401.95	
Seth Turner,	256.00	
William F. Weld,	3,621.30	\$118,805.88
<hr/>		
Income of Graduate Schools of Applied Science balance,	296.68	
Gifts for Trees:		
Class of 1898,	\$65.00	
Gift Robert L. McCook, interest,	21.87	86.87
<hr/>		
Gifts for general purposes,		809.78
<hr/>		
Amount carried forward,	\$119,999.16	

UNIVERSITY (CONTINUED)

INCOME

Amount brought forward,	\$119,999.16		
Receipts of University Printing Office, . .	\$100,690.27		
Less expenses contra,	96,786.85	\$3,903.42	
University Directory :			
Receipts for work done,	\$873.80		
Gifts for equipment,	1,500.00	2,373.80	
Care of the Sarah Winslow Fund,		6.20	
Use of houses by College officers,		1,502.50	
Sale of Annual Catalogue,		67.76	
Sale of Quinquennial Catalogue,		26.79	
Sale of waste paper, wood, junk, etc.,		416.80	
Harvard Athletic Association, rent rooms in Harvard Union,		510.00	
Rent of 38 Quincy St.,		900.00	
Receipts from use of Motor Trucks,	\$3,687.78		
Less expenses,	2,645.07	1,042.71	
Sale of stamped envelopes to University Printing Office,		1,064.06	
Sale of telephone equipment,		1,700.00	13,514.04
Receipts from U. S. Naval Radio School,			968,120.80
			<u>\$1,101,638.50</u>
Balance constituted as follows :			
Deficiency of restricted income met by			
Charges against Funds and Gifts,	\$19.15		
Advance charged to General Suspense,	17,385.71		
Deficit of general income carried to Schedule 10, . . .	10,247.41		
Less :		\$27,652.27	
Balance of restricted income carried to			
Funds and Gifts,	\$2,919.36		
General Suspense,	861.68	3,281.04	24,371.23
			<u>\$1,126,004.78</u>

EXPENDITURE

Board of Overseers :			
Salaries,	\$500.00		
Reports of President and Treasurer,	3,476.87		
General Printing,	437.94		
Stationery, postage, telephone and telegraph, . . .	37.97		
Auditing Treasurer's accounts,	300.00		
Advertising,	23.00		
Luncheon	37.50		
Sundries,	55.39	\$4,868.67	
Corporation Office :			
Fuel, rent, etc.,	\$2,601.26		
Less 80% transferred to the Treasurer's Office, . .	2,081.00	520.26	
Amount carried forward,		\$5,388.98	

UNIVERSITY (CONTINUED)

EXPENDITURE

Amount brought forward,		\$5,388.93
President's Office :		
Salaries :		
President,	6,000.00	
Comptroller,	1,790.32	
Services and wages,	3,652.69	
Equipment and supplies,	93.58	
Stationery, postage, telephone and telegraph, . . .	1,439.24	
Printing,	588.88	
Sundries,	134.85	
	<u>\$13,699.56</u>	
Less 90 % transferred to departments in proportion to the number of students,	12,334.38	
	<u>\$1,365.18</u>	
Additional salary of President :		
From President's Fund,	3,324.89	
From Thomas Cotton Fund,	7.98	4,698.05
Treasurer's Office :		
Salaries :		
Treasurer,	\$6,000.00	
Other salaries,	4,300.00	
Services and wages,	1,870.72	
Office supplies and expenses,	424.12	
Rent of safes,	873.00	
Dues National Association of Owners of Railroad Securities,	200.00	
University charge :		
Corporation Office,	2,081.00	
	<u>\$15,748.84</u>	
Less transferred :		
To Departments in proportion to the income of their Funds,	13,431.35	
The balance represents proportion on income of University Funds,		2,317.49
Bursar's Office :		
Salaries :		
Bursar,	\$4,500.00	
Assistant Comptroller,	3,000.00	
Services and wages,	18,594.38	
Mercantile Agency,	645.00	
Auditing accounts,	1,200.00	
Equipment and supplies,	582.80	
Stationery, postage and telephone,	1,789.81	
Printing,	1,372.18	
Loss by burglary,	553.51	
Miscellaneous,	287.26	
Amounts carried forward,	<u>\$32,524.94</u>	<u>\$12,404.47</u>

UNIVERSITY (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$32,524.94	\$12,404.47
Bursar's Office (<i>continued</i>).		
Less transferred :		
To the College for letting College rooms,	\$800.00	
To Departments in proportion to the Bursar's collections and payments,	28,130.65	28,930.65
The balance represents proportion applicable to University collections and payments,		3,594.29
Publication Office :		
Services and wages,	\$322.18	
Office supplies and expenses,	3,451.04	
	\$3,773.22	
Less charged to Departments,	3,773.22	
Inspector of Grounds and Buildings :		
Salary :		
Inspector of Grounds and Buildings,	\$5,107.00	
Services and wages, office,	4,455.49	
Services and wages, head carpenter,	2,085.00	
Office supplies and expenses,	1,086.09	
	\$12,683.58	
Less amount received for superintendence,	349.98	
	\$12,333.60	
Less transferred to Departments in proportion to work done,	10,707.04	1,626.56
Janitor's Office :		
Janitor,	\$2,175.01	
Assistant Janitor,	1,611.85	
Office supplies and expenses,	117.95	
	\$3,904.81	
Less transferred to Departments in proportion to the floor area of buildings under Janitor's supervision,	3,904.81	
Quinquennial Catalogue :		
Salary editor,	\$100.00	
Services and wages,	8,054.88	
Office expenses,	578.91	
	\$8,738.79	
Less transferred to departments in proportion to space occupied,	2,405.31	1,328.48
Amount carried forward,		\$18,953.80

UNIVERSITY (CONTINUED)

EXPENDITURE

Amount brought forward,		\$18,953.80
Office of Editor of University Directory and War Records :		
Services and wages,	\$4,968.14	
Equipment and supplies,	867.67	
Stationery and postage,	446.70	
Printing,	185.09	
Sundries,	189.88	
	<u>\$6,607.48</u>	
Less amount paid by War Activities Fund,		
Schedule 86,	2,500.00	4,107.48
Annual Catalogue :		
Printing and supplies,	\$3,868.39	
Less sales,	67.76	
Amount to be apportioned to departments,	\$3,800.63	
Less transferred to departments in proportion to space occupied,	<u>2,526.15</u>	
Amount paid by University :		
General Funds,	\$1,274.48	
Amount paid by proceeds from sales,	67.76	1,342.24
Chief Engineer :		
Services and Wages,	\$2,289.00	
Miscellaneous,	80.78	
	<u>\$2,369.78</u>	
Less transferred to Departments in proportion to the floor area of buildings under Engineer's super- vision,	<u>1,901.72</u>	468.06
Watchmen,	\$7,001.12	
Transferred to Departments in proportion to floor area of buildings,	<u>5,057.23</u>	1,943.89
Medical Adviser's Office :		
Salary Medical Adviser,	\$4,000.00	
Services and wages,	696.00	
Office supplies and expenses,	158.06	
Sundries,	345.00	
	<u>\$5,199.06</u>	
Less amount transferred : \$750 to the Stillman Infirmary and the remainder to Cambridge Departments in proportion to the number of students,	<u>5,199.06</u>	
Regent's Office :		
Salary,		
Regent,	\$625.00	
Office expenses,	138.14	
	<u>\$763.14</u>	
Less transferred to Cambridge Departments in proportion to the number of students,	<u>763.14</u>	
Amount carried forward,		\$26,815.42

UNIVERSITY (CONTINUED)

EXPENDITURE

Amount brought forward,	\$26,815.42
Purchasing Agent:	
Salary and expenses,	\$2,276.80
Transferred to Departments,	2,276.80
University Printing Office:	
Salaries,	\$1,200.00
Services and wages,	38,967.94
Supplies and equipment,	42,428.07
Printing done in commercial plants,	1,134.43
Binding done in commercial plants,	7,607.04
Water, heat, light and insurance,	4,448.86
Express and teaming,	418.58
Telephone,	97.15
Repairs to building,	197.19
Sundries,	288.09
	<u>\$96,786.85</u>
Expenses carried contra and deducted from sales to	
Departments,	96,786.85
Harvard University Press:	
Salary of Director,	\$41.67
Services and wages,	7,843.96
Equipment and supplies,	1,220.60
Stationery, postage, telephone and telegraph,	1,544.98
Printing,	51,606.45
Payments to authors on account of sales,	10,576.15
Honoraria	328.80
Advertising,	796.45
Freight, express, and cases,	1,006.12
Binding,	4,397.46
Interest on advances,	1,749.77
Expenses of New York Office,	1,635.92
Books purchased,	126.68
Sundries,	241.58
	<u>\$83,116.59</u>
Less receipts	
Sales of publications,	\$60,658.98
Other receipts,	8.50
Deduct as follows:	<u>\$60,667.48</u>
Sales of publications credited	
to other Departments, \$10,223.06	
Unapportioned sales credited	
to a special deposit account, 2,546.93 12,769.99	
	<u>\$47,897.49</u>
Expense of publications paid	
by other departments, 17,833.39 65,730.88 17,385.71	
Amount carried forward,	<u>\$44,201.13</u>

UNIVERSITY (CONTINUED)

EXPENDITURE

Amount brought forward,		\$44,201.13
Memorial Hall and Sanders Theatre :		
Repairs and equipment,	\$1,659.80	
Caretaking,	823.29	
	<u>\$2,483.09</u>	
Less 90 % transferred to College,	2,234.78	248.31
Repairs and caretaking, general,		<u>3,394.75</u>
General Expenses :		
Salary Secretary,	\$1,614.60	
Salary Dean of University Extension,	326.53	
Salary Sanitary Inspector,	500.00	
Expenses Real Estate in Lucas St., Boston,	148.40	
University Gazette,	\$1,592.12	
Less sales,	<u>239.11</u>	1,353.01
Maintenance of grounds,		9,845.52
Trees and shrubs :		
From General Funds,	4,484.30	
Grading grounds,	320.99	
Purchase of Y. M. C. A. Hut,	750.00	
Street watering,	14.24	
Commencement Day,	910.96	
Dues to Association of American Universities, . .	40.00	
Amount paid to Museum of Comparative Zoölogy as income on the Agassiz Estate, Quincy St., . . .		2,048.00
Excess of expenses over income Agassiz Estate, Quincy St.,	99.62	
Services head guide,	150.00	
Delivery service,	336.67	
Interest on advances — Yard heat tunnel,	9,395.78	
Dues to National University Extension Association,	50.00	
Dues to Association of Urban Universities, . . .	10.00	
Expenses entertaining Association of American Uni- versities,	524.01	
Engraving diplomas and warcertificates,	478.15	
Varsity Club for use of building,	2,133.00	
Cases for honorary degrees,	216.00	
Deficits 1917-18 and 1918-19, Harv. Dining Ass'n,	21,250.67	
“ “ “ “ Foxcroft Dining Hall,	13,496.17	
“ “ “ “ Freshman Din'g Halls,	10,824.32	
Expenses of Exchange Professor with France, . .	1,800.00	
Bursar's Office — renewal of equipment damaged by fire and changes in Memorial Hall addition, .	626.86	
Legal services,	<u>4,500.00</u>	
Amount carried forward,	\$88,247.80	\$47,844.19

UNIVERSITY (CONTINUED)

EXPENDITURE

Amount brought forward,		88,247.80	\$47,844.19
General expenses (<i>continued</i>).			
Harvard Union :			
Heat, light and caretaking,	\$1,196.40		
Repairs,	98.36		
Other expenses,	225.11	\$1,519.87	
Freight and express,		66.56	
Sundries,		316.41	90,150.64
U. S. Naval Radio School, expenses, charges and reserves for restoration of grounds, buildings, and equipment,			
			968,120.80
Payments made from University income for the following accounts :			
Museum of Comparative Zoölogy,	Sch. 27	\$676.23	
Peabody Museum of American Archaeology and Ethnology,	Sch. 28	5,500.48	
Semitic Museum,	Sch. 29	1,850.99	
Germanic Museum,	Sch. 30	152.88	
William Hayes Fogg Art Museum,	Sch. 31	514.93	
Phillips Brooks House,	Sch. 33	313.51	
Stillman Infirmary,	Sch. 35	11,381.08	19,889.60
			<u>\$1,126,004.73</u>

SCHEDULE 8

COLLEGE

(Including the Graduate School of Arts and Sciences)

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds for Instruction and Gifts for Salaries.

Alford Professorship,	\$1,509.99
Edward Austin (part),	\$14,826.65
Austin Teaching Fellowships,	6,205.59
John B. Barringer,	20,532.24
Boylston Professorship,	1,571.17
Class of 1880,	1,450.85
Class Subscription,	5,307.85
Eaton Professorship,	7,712.67
Eliot Professorship,	5,909.66
Eliot Professorship (Jno. Phillips' Gift),	1,106.89
Calvin and Lucy Ellis Aid (part),	350.00
Erving Professorship,	8,455.12
Fisher "	179.20
Henry Flynt,	2,135.24
Fund for Permanent Tutors,	22.32
Gospel Church ($\frac{1}{4}$ income used),	831.49
Gurney (part),	476.06
Hersey Professorship ($\frac{1}{2}$ income),	10,132.63
Hersey Professorship (Thomas Lee's gift),	621.07
Francis Lee Higginson,	1,113.29
Hollis Professorship (Mathematics)	22,074.82
John E. Hudson Professorship,	191.85
Abbott Lawrence (part),	7,641.04
James Lawrence (part),	1,945.77
Henry Lee Professorship,	1,372.48
Thomas Lee, for Reading,	6,067.30
Arthur T. Lyman,	808.81
Charles Nicholas McCall,	3,072.00
Gordon McKay Endowment (part),	1,522.02
McLean Professorship,	3,666.33
Daniel H. Peirce,	2,204.83
Perkins Professorship,	778.39
Pope Professorship,	1,130.04
Professorship of Latin-American History and Economics (part),	2,688.00
Professorship of Hygiene (1899), (part),	4,922.06
Nelson Robinson, Jr. Additional,	5,447.98
Eliza O. and Mary P. Ropes (part),	334.64
Amount carried forward,	5,000.00
	\$140,286.05

COLLEGE (CONTINUED)

INCOME

Amount brought forward,	\$140,286.05	
Income of Funds for Instruction and Gifts for Salaries		
<i>(continued).</i>		
Rumford Professorship,	3,203.38	
Smith Professorship,	1,184.77	
Teachers' Endowment:		
Interest (part),	\$102,041.83	
Gift,	400.00	102,441.83
Unknown Memorial (part),	3,320.00	
Henry Villard,	1,810.80	
Henry W. Wales:		
Wales Professorship (part),	1,724.45	
Henry C. Warren (part),	3,775.55	
Sylvester Waterhouse,	586.65	
David A. Wells (part),	4,741.81	
Jerome Wheelock,	11.62	
Morrill Wyman Fund (part)	1,500.00	
Gifts for salaries,	5,878.50	\$270,465.41
Income of Funds for General Purposes.		
John W. P. Abbot (accumulating),	\$981.86	
Thomas J. Allen,	1,541.38	
John A. Blanchard,	53.76	
Class of 1884,	5,125.12	
" 1885,	5,726.21	
" 1886,	5,120.00	
" 1887,	5,120.00	
Edward W. Codman,	17,206.03	
George G. Crocker,	256.00	
Charles L. Hancock (part),	5,679.57	
Harvard Endowment,	16,369.98	
Matchett,	16,640.00	
Emily H. Moir Bequest,	1,967.98	
Trenor L. Park,	1,122.05	
Jonathan Phillips,	1,612.80	
William M. Spackman,	128.00	
Henry Baldwin Stone Memorial,	3,300.00	
Edward Wheelwright Bequest,	3,840.00	
Davies Wilson,	278.43	
Gifts for General Purposes,	50.00	92,119.17
Income of Fellowship Funds and Gifts for Fellowships,	52,298.61	
Income of Scholarship Funds and Gifts for Scholarships, . . .	81,264.08	
Income of Beneficiary and Loan Funds and Repayments, . . .	51,749.89	
Income of Prize Funds and Gifts for Prizes,	6,344.40	
Amount carried forward,	\$554,341.51	

COLLEGE (CONTINUED)

INCOME

Amount brought forward,		\$554,241.51
Income of Sundry Funds for Special Purposes:		
Percy Lee Atherton Gift,	\$548.66	
Edward Atkinson,	200.00	
Botanic Department (part):		
½ for Cryptogamic Herbarium, . . .	\$509.18	
½ for Laboratories of Botany, . . .	254.59	763.77
William H. Baldwin, Jr., 1885,		286.16
Louise E. Bettens,		1,028.30
Charles Osmyn Brewster,		520.96
Classical Publication Fund of the Class of 1856:		
Interest,	367.56	
Class of 1883 Special,	20.28	
T. Jefferson Coolidge, for Research in Physics,	950.23	
Cryptogamic Herbarium,	181.90	
Ernest B. Dane Fund in Physics,	2,134.16	
Alexis Irenée Du Pont,	5,255.90	
Economics 2 Book Fund, sales publication,	6.59	
English A Fund:		
Sales of publication,	495.54	
William Everett,	273.98	
George A. Gardner,	281.60	
Wolcott Gibbs Memorial:		
Interest,	\$1,255.27	
Other receipts,	491.31	1,746.58
Harvard Economic Studies:		
Sales of publications,	1,313.69	
Harvard Oriental Series,		
768.00		
History Book Fund (History 1):		
Interest,	\$14.19	
Sales of publications,	140.05	154.24
Richard Hodgson Memorial,	720.59	
Charles W. Hubbard,	512.80	
Gardiner M. Lane Bequest,	77.26	
George H. Leatherbee Lecture Fund,	2,989.77	
Calvin Stoughton Locke Fund,	51.20	
Solomon Lincoln Bequest:		
Interest,	\$635.03	
Sale of publications,	15.91	650.94
Joseph Lovering for Physical Research,	417.43	
Mathematics Book Fund, sales of publications,	73.31	
Maria E. McMaster Bequest,	366.69	
Music Building Maintenance Fund,	2,804.63	
Music Department,	16.13	
Amounts carried forward,	\$25,978.84	\$554,241.51

COLLEGE (CONTINUED)

INCOME

Amounts brought forward, . . .	\$25,978.84	\$554,241.51
Income of Sundry Funds for Special Purposes		
<i>(continued).</i>		
Francis Greenwood Peabody:		
Interest,	\$5,805.77	
Sale of publications,	17.12	5,822.89
Physical Laboratory Endowment:		
Interest,	\$3,840.00	
Gift for income,	1,000.00	4,840.00
General Publication Fund:		
Sales of publications,	\$3,172.31	
Interest,	420.35	3,592.66
Robert W. Sayles,		277.86
George William Sawin,		417.79
Shaler Memorial Fund,		1,905.82
Henry Warren Torrey:		
Interest,	\$512.00	
Sales,	268.33	780.33
Unknown Memorial (part),		1,800.00
Cyrus M. Warren,		387.23
Henry C. Warren (part),		2,448.83
Alfred Tredway White Endowment, . . .		990.00
Morrill Wyman,		1,469.70
		50,711.95
Sundry Gifts for Special Purposes:		
Gifts,	\$22,981.42	
Interest and other receipts,	20,140.86	43,122.28
Receipts from students.		
Tuition Fees — Regular Programme:		
College Regular,	\$228,001.94	
“ Special,	3,331.78	
Unclassified,	35,334.78	
Out of Course,	7,718.35	\$274,381.80
Graduate School of Arts and Sciences, . .	26,387.98	
Radcliffe students in College courses, . .	2,400.06	
Tuition Fees — Military and Naval Units:		
Students' Army Training Corps, \$90,954.88		
Naval Unit,	22,404.15	
Marine Corps Unit,	5,841.60	119,200.63
Tuition Fees — Additional Courses:		
College Regular,	\$19,095.26	
Unclassified,	2,705.58	
Out of Course,	566.71	22,867.55
Amounts carried forward,	\$444,788.02	\$648,075.74

COLLEGE (CONTINUED)

INCOME

Amounts brought forward,	\$444,738.02	\$848,075.74
Receipts from students (<i>continued</i>):		
Examination Fees:		
Admission,	\$2,272.48	
Condition, make-up and advanced standing,	588.00	2,860.48
Graduation Fees,		1,640.00
Laboratory Fees:		
Anthropology,	\$2.50	
Astronomy,	255.59	
Botany,	59.96	
Chemistry, Boylston Hall, . . .	12,999.70	
Chemistry, Gibbs Laboratory, . .	108.01	
Education,	5.00	
Engineering Sciences,	730.00	
Geology,	93.28	
Hygiene and Sanitation,	20.00	
Mineralogy,	69.12	
Music,	88.75	
Physics,	128.00	
Psychology,	25.00	
Zoölogy,	185.38	14,715.29
College Dormitories: Hollis, Stoughton, Holworthy, Thayer, Weld, Wadsworth House, and Conant, . .	\$47,090.89	
Matthews Hall,	12,254.51	
	\$59,345.40	
Less $\frac{1}{2}$ net income from Matthews Hall, credited under income of Matthews Scholarship, . .	2,505.71	56,839.69
College Dormitories: Freshman Halls,	79,145.93	599,939.41
Receipts from Military and Naval Units:		
Students' Army Training Corps, . .	\$218,396.95	
Less amounts credited elsewhere:		
Rents, Freshman Halls, \$27,986.67		
Special Investm'ts, Rents, 7,987.78		
Lab. Fees, Chemistry, 2,406.85		
Tuition Fees, College, 90,954.88	129,336.18	89,060.77
Students' Army Training Corps, Naval Unit,	56,371.97	
Less amounts credited elsewhere:		
Rents, Weld Hall, . . .	\$3,719.41	
Special Investm'ts, Rents, 3,729.84		
Amounts carried forward, 7,449.25	56,371.97	\$89,060.77 \$1,248,015.15

COLLEGE (CONTINUED)

INCOME

Amounts brought forward,	7,449.25	56,371.97	\$89,060.77	\$1,248,015.15
Receipts from Military and Naval Units (continued).				
Tuition Fees, College,	22,404.15			
Medical,	3,066.12			
Dental,	1,104.70	34,024.22	22,847.75	
Students' Army Training Corps, Marine Corps Unit,		12,076.50		
Less amounts credited elsewhere :				
Special Investm'ts, Rents, \$1,558.72				
Tuition Fees, College,	5,841.60	7,400.32	4,676.18	
U. S. N. Officers Material School, .	92,741.00			
Less amounts credited elsewhere :				
Special Investm'ts, Rents, \$4,134.61				
Rents, Matthews Hall and Wadsworth House, . . .	13,633.39	17,768.00	74,973.00	
Reserve Officers' Training School, Summer, 1918,		35,193.86	226,251.56	
Sundry Receipts :				
Sale of publications,			\$114.53	
Contribution for salary,			156.25	
Insurance money, fire at Rotch Building,			944.00	
Duplicate diplomas,			21.00	1,235.78
				<u>\$1,475,502.49</u>

EXPENDITURE

From Fellowship Funds and Gifts,	\$15,405.99
From Scholarship Funds and Gifts,	42,269.91
From Beneficiary and Loan Funds and Gifts,	33,713.35
From Prize Funds and Gifts for Prizes,	3,889.76
For Scholarships from General Funds.	
Graduate School of Arts and Sciences :	
University,	2,000.05
From Sundry Funds and Balances for Special Purposes.	
Percy Lee Atherton Gift,	400.00
Charles O. Brewster Fund, Department of Music,	40.00
Classical Publication Fund of the Class of 1856 :	
Harvard Studies in Classical Philology, . .	103.71
T. Jefferson Coolidge for Research in Physics,	2,091.54
Ernest B. Dane Fund in Physics,	1,533.05
Alexis Irenée DuPont Fund,	672.41
Economics 2 Book Fund,	9.44
English A Fund,	461.71
Amounts carried forward,	\$5,311.86
	\$97,279.06

COLLEGE (CONTINUED)

EXPENDITURE

Amount brought forward,	5,811.86	\$97,279.06
From Sundry Funds and Balances for Special Purposes (continued).		
George A. Gardner, for photographs, etc., for the Department of Geology,	190.66	
Wolcott Gibbs Memorial Endowment,	2,388.32	
Harvard Oriental Series, publications,	768.00	
Harvard Economic Studies,	886.10	
History Book Fund (History 1),	692.96	
Charles W. Hubbard Fund, Dept. of Edu- cation,	809.54	
Solomon Lincoln Bequest,	18.22	
Joseph Lovering Fund,	196.80	
Mathematics Book Fund,	86.18	
Music Building Maintenance Fund,	2,547.82	
Francis G. Peabody (part),	2.62	
General Publication Fund,	1,219.25	
Nelson Robinson, Jr. Additional (part).		
Psychological Laboratory,	\$952.79	
Books,	369.31	
Expenses,	36.68	
Librarian Department Philosophy,	1,000.00	
	<u>\$2,358.78</u>	
Less amount paid for salaries,	1,000.00	1,358.78
Robert W. Sayles for Department of Geology,	17.08	
Shaler Memorial,	437.60	
Henry Warren Torrey, publications,	86.59	
Unknown Memorial (part), services and expenses,	1,702.32	
Cyrus M. Warren Fund,	354.85	
Henry C. Warren, publications and books, . .	1,844.22	
Jefferson Physical Laboratory Endowment, . .	5,048.54	25,908.26
From Gifts and Fees, etc., for Special Purposes,		36,705.05
Administration Offices.		
Dean of the Faculty of Arts and Sciences :		
Salary,	\$500.00	
Services and wages,	1,165.00	
Office supplies and expenses,	81.56	1,746.56
Dean of Harvard College :		
Salaries,	\$10,687.50	
Services and wages,	12,069.37	
Office supplies and expenses,	4,443.71	27,200.58
Dean and Secretary of the Graduate School of Arts and Sciences :		
Salaries,	\$3,583.34	
Services and wages,	849.55	
Office supplies and expenses,	986.96	5,419.85
Amount carried forward,		<u>\$194,259.36</u>

COLLEGE (CONTINUED)

EXPENDITURE

Amount brought forward,		\$194,259.86
Administration Offices (<i>continued</i>).		
Secretary Administrative Board for Special Students, Salary,		100.00
Secretary of the Faculty of Arts and Sciences:		
Salaries,	\$500.00	
Services and wages,	1,240.00	
Office supplies and expenses,	119.75	1,859.75
Students Employment Office and Appointment Office:		
Salary of Secretary,	\$1,200.00	
Services and wages,	4,189.15	
Office supplies and expenses,	852.73	6,191.88
Secretary Committee on Choice of Electives:		
Services and wages,	1,362.89	
Office supplies and expenses,	325.81	1,688.70
Professor of Hygiene:		
Office expenses,		12.40
Dean of the Graduate School of Business Administration:		
Salary,		1,000.00
From Appropriations.		
Anthropology,	\$19.30	
Astronomy,	909.85	
Botany,	3,434.76	
Classics,	200.00	
Chemistry,	10,421.73	
Economics,	1,144.02	
Education,	222.65	
English,	253.00	
Engineering Sciences,	6,848.40	
Fine Arts,	1,090.71	
French and other Romance Languages,	830.24	
Geology,	1,291.75	
German,	162.50	
History,	40.00	
Hygiene and Sanitation,	360.07	
Mathematics,	1,116.67	
Mineralogy and Petrography,	452.39	
Music,	535.00	
Physics,	6,118.63	
Psychology,	200.10	
Sanitary Engineering,	1,802.59	
Social Ethics,	37.50	
Zoölogy,	985.74	38,477.60
Amount carried forward,		\$243,589.69

COLLEGE (CONTINUED)

EXPENDITURE

Amount brought forward,		\$248,589.69	
From Laboratory Fees.			
Botany,	\$54.75		
Chemistry, Boylston Hall,	8,793.34		
Chemistry, Gibbs Laboratory,	108.01		
Education,	5.00		
Engineering Sciences,	780.00		
Geology,	248.37		
Hygiene and Sanitation,	20.00		
Mineralogy,	53.67		
Music,	88.75		
Physics,	123.00		
Psychology,	25.00		
Zoölogy,	190.73	10,440.62	
For College Public Buildings, which are not valued in the Treasurer's books.			
Repairs and Equipment,	\$4,664.05		
Caretaking and Operating Expenses,	42,270.50	46,934.55	
For College Dormitories which are not valued in the Treasurer's books.			
Hollis, Stoughton, Holworthy, Thayer, Weld, Wadsworth House, Walter Hastings, Perkins, and Conant; and for Matthews Hall:			
Repairs and Equipment,	\$6,910.42		
Caretaking and Operating Expenses,	34,220.36		
Freshman Halls:			
Maintenance and depreciation,	20,000.00		
Caretaking and Operating Expenses,	49,905.46	111,036.24	
For expenses of Military and Naval Units:			
Students' Army Training Corps,	\$33,167.42		
Students' Army Training Corps, Naval Unit,	27,302.31		
Students' Army Training Corps, Marine Corps Unit,	5,153.77		
U. S. N. Officer Material School,	72,643.47		
Reserve Officers' Training School, Summer, 1918,	\$42,189.74		
Less amount paid by War Activities Fund, Schedule 36,	8,215.05	33,974.69	222,241.66
General.			
Salaries for Instruction:			
Edward Austin (part):			
Austin Teaching Fellowships, \$6,205.59			
From Sundry Funds and Gifts, . 219,496.79			
From General Income, 285,768.65 \$511,471.03			
Amounts carried forward,		511,471.03	\$634,242.76

COLLEGE (CONTINUED)

EXPENDITURE

Amounts brought forward,	511,471.08	\$634,242.76
General (continued).		
Expenses Engineering Camp at Squam Lake, . .	898.92	
Expenses Cruft Memorial Laboratory,	5,935.01	
Expenses Department of Military Science, . . .	2,571.37	
Tutors in Division History, Government and Economics,	5,655.62	
Services and wages,	8,777.43	
Proctors,	1,542.07	
Equipment and supplies,	1,016.01	
Blue-books,	778.06	
Printing,	9,679.54	
Diplomas,	533.45	
Stationery, postage, telephone, etc.,	1,437.89	
Monitorships,	268.75	
Subscription to American School of Classical Studies,	250.00	
Music Class Day,	125.00	
Refreshments at Faculty Meetings,	117.50	
Insurance on apparatus,	83.94	
Books and binding,	385.76	
Travelling expenses,	210.17	
Alterations at Peabody Museum for Department of Engineering Sciences,	211.09	
Sundries,	263.84	551,712.45
Admission Examinations.		
Salary,	\$3,000.00	
Services and wages,	1,545.13	
Other expenses,	2,989.43	7,534.56
Payments made from College Income for the following accounts :		
Jefferson Physical Laboratory, Schedule 8,	\$600.00	
Museum of Comparative Zoölogy, Schedule 27,	4,075.00	
Peabody Museum of American Archaeology and Ethnology, Schedule 28,	611.16	
William Hayes Fogg Art Museum, Schedule 31,	4,634.32	
Phillips Brooks House, Schedule 33,	2,186.80	
Gymnasium, Schedule 34,	6,886.02	
Stillman Infirmary, Schedule 35,	7,296.00	26,289.30
University charge.		
President's Office, salaries and expenses,	\$8,188.40	
Treasurer's Office, care of investments,	5,140.78	
Amounts carried forward,	\$13,329.18	\$1,219,779.07

COLLEGE (CONTINUED)

EXPENDITURE

Amounts brought forward, \$13,829.18 \$1,219,779.07

University charge (*continued*).

Bursar's Office:

Collections and payments,	\$16,685.40	
Letting College rooms,	800.00	17,485.40
Medical Adviser, salary and expenses,		3,510.14
Regent's Office, salary and expenses,		602.14
Inspector of Grounds and Buildings, salary and expenses,		3,929.56
Annual Catalogue,		1,515.89
Quinquennial Catalogue,		1,669.75
90% Memorial Hall and Sanders Theatre expenses for the building,		2,234.78
Watchmen,		2,747.00
Engineer,		1,857.19
Janitor,		3,194.21
Purchasing Agent,	584.68	52,109.87
		<u>\$1,271,888.94</u>

Balance constituted as follows:

Balances of restricted income

Added to Funds and Gifts,	\$180,432.64
Carried to General Suspense,	2,558.42
Applied to pay balances previously charged to General Suspense,	3,869.71
Surplus of general income carried to Schedule 10,	45,284.28
	<u>\$232,140.05</u>

Less Deficiency of restricted income met by

Charges against Funds and Gifts, \$21,986.86	
Advances charged to General Suspense,	6,821.08
Previous balances credited to General Suspense,	218.56
	<u>28,526.50</u>
	<u>203,613.55</u>
	<u><u>\$1,475,502.49</u></u>

LIBRARY INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Book Funds and Gifts and Receipts for the
purchase of books.

Edwin Swift Balch,	\$189.19
Francis Boott (part),	388.49
Nathaniel I. Bowditch,	121.24
Bright Legacy ($\frac{1}{4}$ income),	1,280.00
William B. Castle,	100.35
Francis James Child Memorial,	1,499.14
Fund of the Class of 1851,	108.70
Book Fund of the Class of 1881,	194.00
Edwin Conant ($\frac{1}{4}$ income),	360.74
Constantius ($\frac{1}{4}$ income),	688.92
Archibald C. Coolidge and Clarence L. Hay	282.98
S. Newton Cutler,	53.66
Bayard Cutting Fellowship,	280.48
W. Bayard Cutting Bequest,	645.17
Horace Davis Bequest,	495.97
Peter P. F. Degrand Bequest,	4,655.75
Denny,	284.62
Eliza Farrar,	300.75
John Hays Gardiner Memorial,	116.84
Department of German,	160.20
Price Greenleaf (part),	1,000.00
Charles Gross Memorial,	90.62
George S. and Ellen S. Hale,	336.95
Edward H. Hall,	556.54
Frederic Hilborn Hall Memorial,	275.61
Horace A. Haven,	170.34
Francis B. Hayes,	516.86
George Hayward,	301.72
Thomas Hollis,	127.08
Sidney Homer,	115.30
Jarvis,	26.11
Richard Mather Jopling,	4.43
Horatio King (part),	112.30
Kittredge Anniversary Fund,	220.77
Frederick A. Lane,	281.86
George C. Lodge and Joseph Trumbull	
Stickney Memorial,	181.80
Lowell,	1,698.30

Amount carried forward, \$18,218.18

LIBRARY (CONTINUED)

INCOME

Amount brought forward,	\$18,218.18	
Income of Book Funds and Gifts and Receipts for the purchase of books (<i>continued</i>).		
Francis Cabot Lowell,	572.42	
James Jackson Lowell,	1,071.86	
Charles Minot,	3,223.40	
Charles Eliot Norton,	483.48	
Lucy Osgood,	389.53	
Mary Osgood,	392.45	
Francis Parkman Memorial,	284.12	
George F. Parkman,	1,286.55	
B. Osgood Peirce,	55.71	
James Mills Peirce Bequest,	29.18	
Charles Elliott Perkins Memorial,	31.08	
Professorship of Latin-American History and Economics (part),	1,687.81	
Hugo Reisinger Bequest,	191.23	
Francis Sales,	201.27	
Salisbury,	316.67	
Sever,	1,100.34	
Samuel Shapleigh,	203.46	
George B. Sohler (part),	121.20	
Clement Lawrence Smith,	56.63	
Strobel Memorial (Class of 1877),	171.06	
Strobel Memorial (Siam),	116.79	
Subscription,	554.55	
Charles Sumner,	2,067.92	
Kenneth Matheson Taylor,	274.64	
Elizabeth Torrey,	68.20	
Daniel Treadwell (½ income),	314.06	
John Harvey Treat Book Fund,	2,187.78	
Ichabod Tucker,	246.71	
20th Mass. Regiment of Volunteer Infantry,	51.20	
Wales Income for Books,	300.00	
James Walker,	856.47	
Thomas W. Ward,	273.66	
Julian Palmer Welsh Memorial,	154.83	
J. Huntington Wolcott,	1,075.76	
Chauncey Wright,	67.07	\$38,696.67
Gifts for books:		
Gifts,	\$702.82	
Interest,	176.53	\$879.35
Sale of duplicate books,		1,352.57
Received for books lost,		68.79
Received for fines,	478.88	2,779.59
Amount carried forward,		\$41,476.26

LIBRARY (CONTINUED)

INCOME

Amount brought forward,		\$41,476.26	
Gifts for Special Purposes.			
Gifts for new equipment,	\$150.00		
Gift for certain expenses,			
Gift,	\$2,580.00		
Interest,	38.05	2,538.05	2,688.05
Income of Funds for Special Purposes.			
Henry Weston Farnsworth Memorial, ex-			
penses of Farnsworth room,	\$1,576.09		
R. M. Hodges Fund (part), for publishing Biblio-			
graphical Contributions,	433.41		
Robert Gould Shaw Fund, maintenance of			
theatre collection,	2,603.72	4,613.22	
Income of Funds for general purposes.			
Anonymous Fund for Library,	\$300.00		
Daniel Austin,	399.73		
Edwin Conant ($\frac{1}{2}$ income),	1,082.23		
Constantius ($\frac{1}{2}$ income),	688.92		
Price Greenleaf (part),	18,152.71		
Henry L. Pierce,	2,560.00		
Henry L. Pierce, Residuary (part),	2,457.79		
Stephen Salisbury Bequest,	262.14		
James Savage (part),	1,387.80		
Amey Richmond Sheldon,	15,594.50		
Daniel Treadwell ($\frac{1}{2}$ income),	314.06		
Eben Wright,	5,120.00	48,819.87	
Fees for use of Library,	\$265.00		
Sales of Bibliographical Contributions,	209.19		
Sales of other publications,	7.04		
Sales of printed cards,	1,077.80		
Contribution Radcliffe College toward expenses,	1,000.00		
Sale of photographs,	157.25		
Sale of waste paper,	43.32	2,759.10	
			\$100,856.50
Balance constituted as follows:			
Deficiency of restricted income met by			
Charges against Funds and Gifts,	\$14,243.61		
Advances charged to General Suspense,	14,224.18		
Deficiency of general income carried to Schedule 10,	49,980.80		
			\$78,898.09
Less Balance of restricted income added to Funds			
and Gifts,	11,658.33	66,739.76	
			\$167,096.26

LIBRARY (CONTINUED)

EXPENDITURE

For Books, from the following Funds, Gifts, etc.:

Edwin Swift Balch,	\$111.83
Francis Boott,	240.16
Bowditch,	47.92
Bright,	1,333.39
Castle,	40.26
Francis James Child Memorial,	795.10
Fund of the Class of 1851,	167.03
Book Fund of the Class of 1881,	130.26
Edwin Conant,	204.48
Constantius,	842.43
A. C. Coolidge and C. L. Hay,	16.70
S. Newton Cutler,	25.90
W. Bayard Cutting Bequest,	413.30
Horace Davis Bequest,	423.61
Peter P. F. Degrand Bequest,	1,494.52
Denny,	252.64
Farrar,	38.12
John Hays Gardiner Memorial,	91.01
Department of German,	6.70
Price Greenleaf (part),	936.48
Charles Gross Memorial,	20.80
George S. and Ellen S. Hale,	427.89
Edward H. Hall,	432.11
Frederic Hilborn Hall Memorial,	520.84
Haven,	46.09
Hayes,	290.77
Hayward,	62.67
Hollis,	159.33
Homer,	70.60
Jarvis,	33.53
Horatio King,	128.95
Kittredge Anniversary,	105.48
Lane,	355.69
Latin-American Professorship,	1,687.81
G. C. Lodge and J. T. Stickney Memorial,	131.97
Lowell,	688.42
Francis Cabot Lowell,	97.14
James Jackson Lowell,	889.65
Minot,	5,134.37
Charles Eliot Norton,	543.95
Lucy Osgood,	259.83
Mary Osgood,	116.95
Francis Parkman Memorial,	426.75
George F. Parkman,	1,276.41

Amount carried forward, \$21,519.79

LIBRARY (CONTINUED)

EXPENDITURE

Amount brought forward,	\$21,519.79	
For Books, from the following Funds, Gifts, etc. (continued).		
James Mills Peirce Bequest,	6.75	
Charles Elliott Perkins Memorial,	288.53	
Hugo Reisinger Bequest,	16.51	
Sales,	221.65	
Salisbury,	9.26	
Sever,	778.00	
Shapleigh,	151.77	
Clement Lawrence Smith,	11.44	
George B. Sohler (part),	142.53	
Strobel Memorial (1877),	64.23	
“ “ (Siam),	12.65	
Subscription,	753.67	
Sumner,	3,081.54	
Kenneth Matheson Taylor,	314.43	
Elizabeth Torrey,	28.13	
Daniel Treadwell,	261.72	
John Harvey Treat,	3,412.71	
Tucker,	139.76	
20th Mass. Regiment of Volunteer Infantry,	47.86	
Wales,	204.09	
Walker,	992.42	
Ward,	188.66	
Julian Palmer Welsh Memorial,	185.45	
J. Huntington Wolcott,	1,066.56	
From Sundry gifts for books,	5,507.00	
Duplicate money and receipts for lost books, . . .	1,706.59	
Fines,	407.15	\$41,520.84
From Henry Weston Farnsworth Memorial, expenses of Farnsworth Room,	\$1,270.14	
B. M. Hodges Fund, publishing Bibliographical Contributions,	1,216.34	
Robert Gould Shaw Fund, maintenance of theatre collection,	2,500.00	
Evert Jansen Wendell Fund,	14,210.53	19,197.01
From Gift for new equipment,	\$607.41	
“ “ certain expenses,	1,946.64	2,554.05
General.		
Salaries,		19,244.75
Services and wages (part),	\$38,419.03	
Equipment and supplies,	2,249.19	
Stationery, postage, telephone and telegraph, . . .	1,412.54	
Amounts carried forward,	\$42,080.76	\$32,516.65

LIBRARY (CONTINUED)

EXPENDITURE

Amounts brought forward,		\$42,080.76	\$82,516.65
General (continued).			
Binding,	4,940.31		
General printing,	609.19		
Printed cards,	1,812.27		
Freight, express, etc.,	311.77		
Laundry,	86.50		
Sundries,	130.10		49,970.90
Building expenses, Widener Library:			
Repairs,	\$199.63		
Caretaking,	14,198.16		
Water, heat, light, power, etc.,	15,920.05		
Repairs to heating equipment,	559.29		30,877.13
University charge:			
Treasurer's Office, care of investments,	\$866.70		
Bursar's Office, collections and payments,	1,031.10		
Inspector of Grounds and Buildings, salary and expenses,	533.31		
Watchmen,	899.92		
Engineer,	251.55		
Purchasing Agent,	149.00		3,731.58
			<u>\$167,096.26</u>

SCHEDULE 10

UNIVERSITY, COLLEGE, AND LIBRARY COMBINED ACCOUNTS

For the year ended June 30, 1919

Deficit in University, Schedule 7,	\$10,247.41
Deficit in Library, Schedule 9,	49,930.80
	<u>\$60,177.71</u>
Surplus in College, Schedule 8,	45,284.28
Deficit met by the unrestricted principal of the Henry L. Pierce (Residuary) Fund,	<u>\$14,893.43</u>

SCHEDULE 11

SUMMER SCHOOLS FACULTY OF ARTS AND SCIENCES

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

School of 1918.

Receipts from students:

Tuition fees.

General, \$12,866.83

Physical Education, 6,400.00 \$19,266.83

Registration fees, 3,699.00

Auditors fees, 840.00

Board and room rents, Freshman

Halls, 11,895.50 \$35,701.33

Sale of publication, Case Studies Abnormal Type, 6.81 \$35,708.14

School of 1919.

Income of **Sayles** Fund, Summer Course in Geology, 567.14

\$36,275.88

Balance constituted as follows:

Deficiency of restricted income met by charges

against Funds and Gifts, \$482.86

Deficit of general income met by advances charged

to General Suspense, 390.65 873.51

\$37,148.79

SUMMER SCHOOLS (CONTINUED)

EXPENDITURE

School of 1918.

Dean's Office :

Salary of Dean,	\$900.00	
Services and wages,	372.75	
Office supplies,	47.89	\$1,320.64
Salaries for Instruction,		12,870.00
General Expenses,		632.46
Public Exercises,		362.19
Historical Excursions,		204.19
Hospitality,		118.02
Scholarships,		40.00
Advertising,		84.36
Expenses of Freshman Halls, including Dining Hall,		11,892.92

University charge :

Bursar's Office, collections and pay- ments,	\$170.70	
Inspectors Office Expenses,	47.88	
	\$218.08	
Less amount transferred to Schedule 8,	90.70	127.38
		\$27,152.16

School of Physical Education.

General,		5,172.08
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School of 1919.

Dean's Office :

Services and wages,	\$1,002.48	
Office supplies,	790.58	\$1,793.06
General Expenses,	555.07	
Advertising,	1,080.67	
Public Exercises,	9.37	3,438.17
School of Physical Training,		586.38
From Sayles Fund,		800.00
		<u>\$37,148.79</u>

SCHEDULE 12

SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds and Gifts.

Departments of Architecture and Landscape

Architecture Additions Fund.

Interest,	\$13,618.33	
Gift for Income,	11,250.00	\$24,868.33
Nelson Robinson, Jr. (part),	29,008.20	
Revere Family Memorial,	1,079.81	
Arthur Rotech,	1,280.00	
Gurdon Saltonstall,	3,072.00	
Josiah Stickney,	603.75	\$59,907.09

Income of Fellowship Funds.

Julia Amory Appleton,	\$1,307.19	
Charles Eliot,	1,528.68	
Nelson Robinson, Jr. (part),	1,000.00	3,835.87

Income of Scholarship Funds.

Edward Austin (part),	\$290.00	
Bright (part),	83.34	
Francis H. Cummings,	373.35	
Eveleth (part),	300.01	1,046.70

Receipts from students.

Tuition fees. Architecture,	\$3,097.41	
Landscape Architecture,	800.02	\$3,897.43
Graduation fees,	120.00	
Laboratory fees,	20.00	4,037.43
		<u>\$68,827.09</u>

EXPENDITURE

From Scholarship Funds.

Edward Austin Scholarships in Architecture, .	\$290.00	
Bright,	83.34	
Francis H. Cummings,	150.00	
Eveleth,	300.01	\$823.35
Amount carried forward,		<u>\$823.35</u>

SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE (CONTINUED)

EXPENDITURE

Amount brought forward,		\$823.35
For Scholarships from general funds.		
Architectural League,	\$400.02	
University,	450.02	850.04
From Sundry Funds for Special Purposes.		
Revere Family Memorial,	\$756.15	
Nelson Robinson, Jr.:		
Expenses of Nelson Robinson,		
Jr., Hall,	7,907.42	8,663.57
From Appropriations.		
Architecture,	\$738 89	
Landscape Architecture,	2,625.74	3,359.63
General.		
Salaries,	\$20,200.00	
Stationery and postage,	8.10	
Printing,	269.40	20,477.50
University charge.		
President's Office, salaries and expenses,	\$138.73	
Treasurer's Office, care of investments,	541.74	
Bursar's Office, collections and payments,	364.24	
Medical Adviser, salary and expenses,	59.91	
Regent's Office,	10.25	
Annual Catalogue,	87.25	
Quinquennial Catalogue,	4.26	
Purchasing Agent,	30.78	
Inspector of Grounds and Buildings,	1.12	
Watchmen, . . . . .	.56	1,238.84
Phillips Brooks House, Schedule 33,	\$37.29	
Gymnasium, Schedule 34,	117.48	
Stillman Infirmary, Schedule 35,	120.00	274.72
		<u>\$35,687.65</u>
Balance constituted as follows:		
Balance of restricted income added to Funds and Gifts, \$34,251.21		
Less		
Deficit of general income met by the Departments		
of Architecture and Landscape Architecture		
Additions Fund,	1,111.77	33,139.44
		<u>\$68,827.09</u>

SCHEDULE 13

SCHOOLS OF ENGINEERING AND MINING

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds for Salaries and General Purposes.

Abbott Lawrence (part),	\$1,215.27	
James Lawrence (part),	1,215.27	
Gordon McKay Endowment (part),	119,098.71	
Professorship of Engineering,	2,089.27	
Edward Whitney,	621.67	\$124,240.19

Income of Scholarship and Beneficiary Funds and Gifts.

Daniel A. Buckley (part),	\$133.34	
Harvard Engineering Society of New York Scholarship Fund.		
Interest,	\$56.67	
Loans repaid,	75.00	131.67
Hennen Jennings,	693.56	
Henry Weidemann Locke (interest), . . .	10.75	
Lawrence Scientific School Loans Returned Fund:		
Interest,	\$489.91	
Loans returned,	1,135.40	1,625.81
Susan B. Lyman Loan Fund,	102.21	
Stuart Wadsworth Wheeler Fund:		
Interest,	\$594.59	
Loans repaid,	42.40	636.99
		3,333.83

Gifts for Special Purposes.

Edward B. Dane gift, research in Sanitary Engineering, interest,	\$32.19	
Gift for Summer Mining Camp, interest,	33.20	65.39

Receipts from students.

Tuition fees,	\$4,838.52	
Laboratory fees,	13.33	4,846.85
		\$132,486.26

SCHOOLS OF ENGINEERING AND MINING (CONTINUED)

EXPENDITURE

From Scholarships and Beneficiary Funds.

Daniel A. Buckley Scholarship,		\$138.84
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From Sundry Gifts for Special Purposes.

Gift of Ernest B. Dane, Research in Sanitary

Engineering,	\$141.64	
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Gift for Summer Course Mining Camp,	8.80	150.44
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General.

Teaching salaries,	\$50,287.62	
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Equipment and supplies,	1,006.38	
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Stationery, postage, telephone and telegraph, . . .	410.20	
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Services and wages,	1,019.89	
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Printing,	1,055.14	
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Books,	7.61	
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Reestablishing Departments of Engineering and

Mining in the University Buildings,	8,124.81	
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Instruction and expenses of course in Water-power

Engineering,	320.36	
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Travelling expenses,	211.15	
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Blue books,	215.00	
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Diplomas,	75.75	
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Insurance on metallurgical apparatus,	86.11	
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Freight, express and moving,	175.38	62,995.35
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University Charge.

President's Office, salaries and expenses,	\$186.08	
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Treasurer's Office, salaries and expenses,	975.10	
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Bursar's Office, salaries and expenses,	176.39	
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Inspector's Office, salaries and expenses,	8.34	
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Annual Catalogue,	58.99	
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Watchmen,	74	
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Quinquennial Catalogue,	17.02	
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Purchasing Agent,	26.76	1,449.37
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Phillips Brooks House, Schedule 33,	\$50.00	
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Gymnasium, Schedule 34,	157.47	
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Stillman Infirmary, Schedule 35,	152.00	359.47
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\$65,087.97

Balance constituted as follows :

Balance of restricted income added to Funds and Gifts, \$67,507.74

Less

Deficiency of restricted income met by charges

against Funds and Gifts,	109.45	67,898.29
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\$132,486.26

SCHEDULE 14

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds.

Business School balance, interest,	\$176.68	
Edmund Cogswell Converse Professorship in		
Banking,	6,946.56	
Endowment Fund,	3,339.26	
James J. Hill Fund,	6,400.00	
James J. Hill Professorship of Transportation,	6,547.05	
Gordon McKay Endowment (part),	3,750.00	
Isador Straus Memorial,	514.51	
Daniel A. Buckley Scholarship (part),	250.00	

Student Loan Fund.

Loans repaid,	\$1,343.07	
Interest,	44.86	1,387.93

Bureau of Business Research Publication Fund.

Sale of publications,	\$1,568.37	
Interest,	19.27	1,587.64
		\$30,899.63

Gifts for immediate use :

For deficit. Gifts,	\$9,100.00	
For courses in printing,	1,325.00	
Paul E. Fitzpatrick, books,	75.00	
Frederick L. and John C. Olmstead, books,	50.00	10,550.00

Receipts from students.

Tuition fees, Regular students,	\$4,075.02	
Special session,	21,410.74	\$25,485.76
Rental of stop watches,	10.00	
Library fines,	7.00	25,502.76

Miscellaneous.

Sale of pamphlets,		2.04
		\$66,954.43

GRADUATE SCHOOL OF BUSINESS (CONTINUED)

EXPENDITURE

Instruction.

Salaries of instructing staff,	\$32,846.77	
Compensation for outside lecturers,	1,475.00	
Hospitality and travelling expenses of lecturers, . .	37.47	
Services of assistants in courses,	526.00	\$34,885.24

Accessories of instruction.

Books and periodicals :

From general funds,	\$1,281.84	
From special funds,	281.00	\$1,562.84
Binding books and periodicals,	670.85	
Reading room salaries,	2,293.09	
Reading room supplies and expenses,	563.67	
Equipment and supplies,	122.82	
Stationery, postage, telephone and express,	44.92	
Equipping and remodelling conference and class rooms,	17.48	
Printing for courses,	38.76	
Proctors,	32.00	
Diplomas,	1.50	
Laboratory of Business Devices,	1,047.56	6,895.49

Investigations.

Bureau of Business Research :

From general funds,	\$6,682.47	
From special funds,	1,735.26	\$8,417.73

Travelling expenses for instructors research :

From special funds,	62.00	8,479.73
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Awards to Students.

Loans to students,	\$643.03	
Prizes,	150.00	
Daniel A. Buckley Scholarships,	250.00	1,043.03

Administration.

Salaries for administration,	\$1,361.71	
Travelling expenses for administration,	47.14	
Supplies,	92.16	
Printing,	1,315.14	
Telegraph and telephone,	138.52	
Postage and express, including publicity,	137.90	
Advertising,	1,411.02	4,503.59

University charge :

President's Office, salaries and expenses,	\$501.59	
Treasurer's Office, care of investments,	258.36	
Amounts carried forward,	\$759.95	\$55,307.08

GRADUATE SCHOOL OF BUSINESS (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$759.95	\$55,307.08
University charge (<i>continued</i>).		
Bursar's Office, collections and payments,	992.12	
Inspector's Office, salary and expenses,	30.54	
Medical Adviser, salary and expenses,	216.41	
Regent's Office,	37.10	
Watchmen,	2.01	
Annual Catalogue,	108.22	
Quinquennial Catalogue,	7.09	
Purchasing Agent,	22.11	2,175.55
Phillips Brooks House, Schedule 33,	\$134.76	
Gymnasium, Schedule 34,	424.86	
Stillman Infirmary, Schedule 35,	540.00	1,099.62
Balance constituted as follows :		\$58,582.25
Balance of restricted income added to Funds and Gifts,	\$7,836.29	
Balance of general income carried to General Suspense for future use,	2,033.85	
		\$9,870.14
<i>Less</i>		
Deficiency of restricted income met by		
Charges against Funds and Gifts,	\$656.00	
Advances charged to General Suspense,	841.96	1,497.96
		8,372.18
		<u>\$66,954.43</u>

SCHEDULE 15

DIVINITY SCHOOL

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds for Instruction or for General Purposes.	
Divinity School balance, interest,	\$448.19
Endowment,	3,669.86
Oliver Ames,	870.40
Hannah C. Andrews,	26.88
Daniel Austin,	57.09
Edward Austin (part),	500.00
Adams Ayer,	51.20
Joseph Baker,	782.08
Bussey Professorship,	1,924.81
Bussey Trust (part),	5,196.97
Amount carried forward,	\$13,526.98

DIVINITY SCHOOL (CONTINUED)

INCOME

Amount brought forward, \$18,526.98

Income of Funds for Instruction or for General Purposes

(continued).

Walter Channing Cabot (part),	2,000.00	
Joshua Clapp,	111.52	
Edwin Conant,	256.00	
Dexter Lectureship,	1,307.85	
Frothingham Professorship,	3,005.59	
Abraham W. Fuller,	53.76	
Lewis Gould,	46.64	
John Hancock Professorship,	\$307.61	
Charles L. Hancock (part),	3,192.39	8,500.00
Haven,	256.00	
Samuel Hoar,	53.76	
Hollis Professorship of Divinity,	1,767.32	
Henry P. Kidder,	512.00	
Henry Lienow,	470.27	
Caroline Merriam,	53.76	
John Newgate,	17.05	
Parkman Professorship,	820.02	
Francis Greenwood Peabody Professorship,	1,299.35	
Plummer Foundation,	1,346.36	
John W. Quinby,	35.58	
Abby Crocker Richmond,	51.20	
John L. Russell,	51.20	
William B. Spooner,	512.00	
Thomas Tileston of New York Endowment,	2,048.00	
Mary P. Townsend,	268.80	
Winthrop Ward,	107.52	
Winn Professorship,	3,192.11	
Augustus Woodbury Bequest,	53.14	
Gift for salary,	1,000.00	
Society for Promoting Theological Education Gift.		
Gift,	\$3,976.14	
Interest,	33.84	4,009.98
Gift for expenses publishing Harvard Theological		
Studies,	500.00	\$42,233.76
Income of Scholarship and Beneficiary Funds,		2,847.18
Income of Prize Funds,		154.78
Income of Funds and Gifts for Special Purposes.		
Bushton Dashwood Burr,	\$238.03	
Louisa J. Hall,	318.57	556.60
Amount carried forward,		\$45,792.82

DIVINITY SCHOOL (CONTINUED)

INCOME

Amount brought forward,		\$45,792.32
Receipts from Students.		
Tuition fees,	\$2,686.67	
Graduation fees,	120.00	
Divinity Hall, rents,	1,086.66	3,848.33
		<u>\$49,635.65</u>

EXPENDITURE

From Scholarship and Beneficiary Funds,		\$2,425.00
From Prize Funds,		100.00
From Funds and Gifts for Special Purposes.		
Rushton Dashwood Burr,	\$223.21	
Louisa J. Hall,	294.18	
John W. Quinby,	14.08	531.47
General.		
Salaries,	\$28,948.63	
Services and wages,	861.00	
Equipment and supplies,	5.50	
Stationery, postage, telephone and telegraph, . . .	88.67	
Printing,	293.16	
Faculty dinner,	58.41	
Sundries,	24.00	
Share Library expenses, Andover Theological Seminary.		
Salaries,	\$2,007.51	
Services and wages,	66.60	
Stationery and postage,	51.36	
Books,	193.65	
Binding,	58.40	
Printing,	18.63	
Printed cards,	25.00	
Heat, light and janitor service,	906.22	3,827.37
		<u>83,606.74</u>
Divinity Hall.		
Repairs and equipment, land and building (part), .	\$255.02	
Caretaking, land and building (part),	755.16	1,010.18
Divinity Library.		
Repairs and equipment, land and building (part), .	\$40.92	
Caretaking, land and building (part),	114.24	155.16
Amount carried forward,		\$37,828.55

DIVINITY SCHOOL (CONTINUED)

EXPENDITURE

Amount brought forward,		\$37,828.55
University charge.		
President's Office, salaries and expenses,	\$160.92	
Treasurer's Office, care of investments,	383.43	
Bursar's Office, collections and payments,	307.10	
Medical Adviser, salary and expenses,	69.48	
Regent's Office,	11.90	
Inspector of Grounds and Buildings, salary and expenses,	12.44	
Annual Catalogue,	129.64	
Quinquennial Catalogue,	49.66	
Watchmen, . . . . .	.64	
Purchasing Agent,	1.01	1,126.17
Semitic Museum, Schedule 29,	\$578.99	
Phillips Brooks House, Schedule 33,	43.22	
Gymnasium, Schedule 34,	136.61	758.82
		<u>\$39,713.54</u>
Balance constituted as follows:		
Balance of restricted income added to Funds and Gifts,	\$5,010.46	
Surplus of general income carried to General Suspense for future use,	5,009.72	
	<u>\$10,020.18</u>	
Less,		
Deficiency of restricted income met by charges against Funds and Gifts,	98.07	9,922.11
		<u><u>\$49,635.65</u></u>

LAW SCHOOL
INCOME AND EXPENDITURE
For the year ended June 30, 1919

INCOME

Income of Funds for Instruction and General Purposes.

Law School balance, interest,	\$3,512.64	
Law School Endowment,	325.79	
Ames Fund,	539.85	
Samuel Ames Bequest,	102.40	
James and Augusta Barnard,	5,086.38	
Bemis Professorship,	5,613.93	
Andreas Blume Bequest,	6.81	
Bussey Professorship,	1,357.47	
Bussey Trust (part),	5,196.97	
Byrne Professorship of Administrative Law, . .	7,798.53	
James C. Carter Professorship,	5,495.04	
Dane Professorship,	891.60	
Royall Professorship,	427.06	
Ezra Ripley Thayer Teaching Fellowship, . .	1,354.60	
Weld Professorship,	4,863.74	\$42,572.81

Income of Book Funds and Gifts.

Gift of James Munson Barnard and Augusta		
Barnard, interest,	\$18.09	
John L. Cadwalader,	1,024.00	
Law School Book,	2,407.48	
Law School Library,	5,120.00	
Gifts for books,	250.00	
Gift for framing coat of arms	20.16	8,839.73

Income of Scholarship, Beneficiary and Prize Funds and Gifts, 8,839.80

Tuition fees:

Regular session,	\$16,860.00	
Special session,	45,560.00	\$61,920.00
Sale of books,	1,745.50	
Sale of Library Catalogue,	5.00	
Sale of Case Books,	121.81	
Unclaimed locker deposits,	70.00	
Part of a 1917-18 salary returned,	331.93	64,194.24
		<u>\$126,446.58</u>

Balance constituted as follows:

Deficiency of restricted income met by charges against Funds and Gifts,	\$238.40	
Deficiency of general income met by previous balances credited to General Suspense,	9,412.56	
	<u>\$9,645.96</u>	
Less Balance of restricted income added to Funds and Gifts,	8,927.09	718.87
		<u><u>\$126,165.45</u></u>

LAW SCHOOL (CONTINUED)

EXPENDITURE

From Scholarship, Beneficiary and Prize Funds and Gifts,	\$7,819.59	
Scholarships from unrestricted income,	1,900.00	
Teaching Salaries,	68,306.89	

Library.

Salaries librarian and assistant librarian,	\$6,400.00	
Services and wages,	8,148.65	
From James Munson Barnard and Augusta		
Barnard Gift, books,	250.22	
James and Augusta Barnard Fund, . .	5,086.88	
Books from general funds,	5,282.42	
Binding,	1,883.81	
Insurance on books,	183.43	
Equipment and supplies,	155.12	
Stationery, postage and telephones,	174.13	
Printed cards,	38.88	
Freight and express,	95.41	
Printing,	24.37	
Refinishing busts,	60.00	
Miscellaneous expenses,	74.61	27,857.43

Administration and General.

Salary of Secretary,	\$2,000.00	
Services and wages,	840.00	
Equipment and supplies,	115.63	
Stationery, postage, telephone and telegraph, . . .	527.64	
Printing,	934.89	
Advertising,	145.00	
Proctors and monitors,	95.95	
Diplomas,	29.50	
Income of the Ames Fund deposited with Dean, .	500.00	
Dues Association of American Law Schools, . . .	20.00	
Travelling expenses,	20.00	
Miscellaneous expenses,	21.22	5,249.83

Repairs and equipment, land and buildings,	\$663.01	
Caretaking, land and buildings,	7,311.52	7,974.58

University charge.

President's Office, salaries and expenses,	\$1,376.01	
Treasurer's Office, care of investments,	521.07	
Bursar's Office, collections and payments,	2,116.66	
Medical Adviser, salary and expenses,	593.17	
Regent's Office,	101.75	
Inspector of Grounds and Buildings, salary and		
expenses,	144.81	
Annual Catalogue,	218.90	

Amounts carried forward, \$5,072.37 \$118,607.77

LAW SCHOOL (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$5,072.37	\$118,607.77
University charge (<i>continued</i>).		
Quinquennial Catalogue,	887.54	
Watchmen,	280.47	
Janitor,	239.35	
Engineer,	76.87	
Purchasing Agent,	17.86	6,024.46
Phillips Brooks House, Schedule 33,	\$369.55	
Gymnasium, Schedule 34,	1,163.67	1,533.23
		<u>\$126,165.45</u>

SCHEDULE 17

MEDICAL SCHOOL

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds for Instruction and General Purposes.

Anonymous Fund in the Department of Theory and Practice,	\$530.64
Edward M. Barringer (part),	1,049.98
Robert C. Billings,	5,000.00
Brinckerhoff Fund,	275.56
John B. and Buckminster Brown,	3,429.11
Bullard Professorship of Neuropathology,	4,449.23
Calvin and Lucy Ellis,	22,410.08
George Fabyan Foundation (part),	5,000.00
Charles F. Farrington (part),	1,000.00
Samuel E. Fitz,	94.00
George W. Gay Lecture Fund Medical Ethics,	53.86
Rebecca A. Greene Bequest,	2,822.20
Henry Harris ($\frac{1}{4}$ income),	766.44
Harvard Medical Alumni,	501.81
Hersey Professorship ($\frac{1}{2}$ income),	414.04
George Higginson,	5,661.95
John Homans Memorial,	2,674.69
Silas Arnold Houghton Professorship,	1,289.12
George S. Hyde,	2,561.08
Jackson Professorship of Clinical Medicine,	3,542.68
Henry Jackson Endowment (part),	3,000.00

Amount carried forward, \$66,526.37

MEDICAL SCHOOL (CONTINUED)

INCOME

Amount brought forward, \$66,526.37

Income of Funds for Instruction and General Purposes

(continued).

Hamilton Kuhn Memorial,	9,842.47
Walter Augustus Lecompte Professorship (part),	1,400.00
William O. Moseley,	2,812.62
New subscription,	1,989.12
Lyman Nichols,	513.02
George F. Parkman, Medical Fund,	439.35
Henry L. Pierce (Residuary),	2,007.91
John D. Rockefeller,	51,200.00
Dr. Ruppner,	478.00
Henry Francis Sears Fund (part),	500.00
George C. Shattuck,	5,072.01
Francis Skinner,	2,197.56
James Stillman Professorship,	6,119.78
Mary W. Swett,	807.17
Samuel W. Swett,	1,024.00
Quincy Tufts,	102.40
Edward Wigglesworth Professorship (part), .	2,677.21
Henry Willard Williams,	3,072.97
Morrill Wyman Medical Research (part), . .	6,781.16
Gifts for salaries,	1,900.00
	<u>\$167,463.12</u>

Income of Fellowship Funds, 12,477.44

Income of Funds and Gifts for Scholarships and Aids, 10,611.43

Income of Prize Funds, 832.61

Income of Sundry Funds for Special Purposes.

Edward Austin (Bacteriological Laboratory), .	\$552.34
J. Ingersoll Bowditch,	514.15
Boylston, for Medical Books,	100.61
Herbert L. Burrell Fund,	302.59
Colburn Fund,	2,246.30
Dr. John C. Cutter Bequest:	
Interest (part),	\$388.64
Royalties on publications,	9.37
	<u>398.01</u>
Duplicate Book Fund, Interest,	24.69
Thomas Dwight Memorial,	675.64
George Fabyan Foundation for Comparative Pathology (part),	7,059.65
George Fabyan Foundation, Special,	658.38
Charles F. Farrington (part),	1,678.02

Amount carried forward, \$14,210.38 \$191,384.60

MEDICAL SCHOOL (CONTINUED)

INCOME

Amounts brought forward,		\$14,210.38	\$191,884.60
Income of Sundry Funds for Special Purposes			
<i>(continued).</i>			
Flattery Research Fund (part),		122.14	
F. B. Greenough (for surgical research), . . .		344.68	
Henry Jackson Endowment (part),		2,362.38	
Walter Augustus Lecompte Professorship of			
Otology (part),		1,460.84	
Harriet Newell Lowell,		17.99	
Medical Library,		189.93	
Charles S. Minot Bequest,		119.45	
E. D. Morgan Gift, Pathological Laboratory, .		855.79	
Repayments Anatomical Laboratory,		745.11	
" Bacteriological Laboratory,		143.00	
" Chemical Laboratory,		1,028.86	
" Neuropathological Laboratory:			
Interest,	\$14.47		
Other receipts,	102.59	117.06	
" Pathological Laboratory,		83.50	
" Comparative Pathological Laboratory:			
Interest,	\$44.48		
Other receipts,	747.53	792.01	
" Pharmacological Laboratory,		53.77	
" Physiological Laboratory,		203.35	
" Department of Medicine Laboratory, .		75.17	
" Preventive Medicine and Hygiene Lab.		22.63	
Proctor, for the study of Chronic Diseases, . . .		2,620.88	
Maurice H. Richardson Memorial,		162.56	
School of Comparative Medicine,		399.00	
Henry Francis Sears Fund for Pathology (part),		1,300.70	
James Skillen Memorial,		579.12	
Surgical Laboratory,		256.00	
William H. Thorndike, Surgery,		310.22	
Zoe D. Underhill Research,		514.05	
Warren Fund for Anatomical Museum,		813.52	
James C. White Bequest,		273.05	
Edward Wigglesworth Professorship of Der-			
matology (part),		472.00	
Morrill Wyman Medical Research (part), . . .		240.00	80,288.59
Income of Funds and Gifts for Huntington			
Memorial Cancer Hospital.			
Memorial Cancer Hospital Endowment,		\$6,904.78	
Francis Bartlett Free Bed,		256.00	
T. Jefferson Coolidge for Cancer Research, .		102.40	
Caroline Brewer Croft,		4,711.68	
William Endicott Fund,		1,280.00	
Amounts carried forward,		\$13,254.86	\$221,678.19

MEDICAL SCHOOL (CONTINUED)

INCOME

Amounts brought forward,	\$13,254.86	\$221,673.19
Income of Funds and Gifts for Huntington Memorial		
Cancer Hospital (<i>continued</i>).		
Lawrence Carteret Fenno,	1,024.00	
Lawrence Carteret Fenno Free Bed,	256.00	
Flattery Research Fund (part),	677.86	
Franklin H. Hooper Free Bed,	256.00	
Amos Lawrence Hopkins Free Bed,	256.00	
Maria D. Lockwood Memorial,	2,597.33	
George von L. Meyer Bequest,	32.61	
Julia M. Moseley Fund,	875.00	
Clara Endicott Payson Free Bed,	256.00	
Memorial Cancer Hospital Proctor Maintenance,	376.77	
Emily J. Proctor Gift,	128.05	
Memorial Cancer Hospital Research Fund,	458.36	
Gifts for current use,	15,588.00	
Memorial Cancer Hospital New Laboratory Fund,		
Interest,	836.88	
Gifts for salaries,	3,250.00	
" expenses of social service worker,	120.00	
" services of technician,	1,840.00	42,083.72
Income of Gifts for Special Use.		
Gifts,	\$55,870.00	
Interest and other receipts,	5,538.12	61,408.12
Sale of heat and power,	\$151,164.19	
Less amount taken for income of funds invested in		
Power Plant,	22,452.62	128,711.57
Receipts from students.		
Tuition Fees.		
Regular courses,	\$78,997.18	
Dental students,	5,950.00	
Division of Medical Sciences,	508.34	
Students Army Training Corp,	3,533.83	
" " " " Naval		
Unit,	3,066.12	\$92,055.47
Matriculation fees,	485.00	
Examination fees,	21.00	
Microscope fees,	1,579.45	
Laboratory fees and supplies.		
Anatomy,	\$324.00	
Bacteriology,	183.18	
Histology,	117.00	
Biological Chemistry,	430.00	
Physiology,	63.18	
Comparative Pathology,	5.00	
Biology,	554.85	1,677.16
Amount carried forward,		\$95,818.08
		\$549,694.68

MEDICAL SCHOOL (CONTINUED)**INCOME**

Amount brought forward		\$549,694.68
Miscellaneous receipts.		
Peter Bent Brigham Hospital for library service,	\$800.00	
Return of 1917-18 salary in part,	1,500.00	
Sale of barrels,	62.75	2,862.75
		<hr/>
		<u>\$552,057.43</u>

EXPENDITURE

From Fellowship Funds and Gifts,	\$725.00
From Scholarship and Aid Funds and Gifts,	7,330.53
From Prize Funds,	600.00
From Sundry Funds for Special Purposes.	
Edward Austin (Bacteriological Laboratory), .	\$211.58
J. Ingersoll Bowditch, Physiology,	370.85
Dr. John C. Cutter Bequest (part),	213.59
Thomas Dwight Memorial,	575.00
George Fabyan Foundation for Comparative Pathology (part),	3,000.00
Charles F. Farrington (part),	140.56
F. B. Greenough Fund,	543.83
Walter Augustus Lecompte Professorship of Otology (part),	49.22
Harriet Newell Lowell,	181.67
E. D. Morgan Gift,	16.25
Repayment Anatomical Laboratory,	649.74
“ Bacteriological Laboratory,	143.00
“ Chemical Laboratory,	1,028.86
“ Department Medicine Laboratory,	75.17
“ Neuropathological Laboratory,	722.81
“ Pathological Laboratory,	38.50
“ Comparative Pathological Laboratory,	290.82
“ Pharmacological Laboratory,	53.77
“ Physiological Laboratory,	203.35
“ Department of Preventive Medicine and Hygiene Laboratory,	22.63
Proctor, for the study of Chronic Diseases, . . .	2,000.00
Henry Francis Sears Fund for Pathology (part),	1,470.68
James Skillen Memorial,	250.00
Surgical Laboratory,	239.08
Zoe D. Underhill Fund,	554.05
	<hr/>
Amount carried forward,	\$12,989.51 \$8,655.53

MEDICAL SCHOOL (CONTINUED)

EXPENDITURE

Amount brought forward,	\$12,989.51	\$8,655.58
From Sundry Funds for Special Purposes (<i>continued</i>).		
Edward Wigglesworth Professorship of Der-		
matology (part),	\$472.00	
Morrill Wyman Medical Research (part), . .	240.00	
Warren Anatomical Museum:		
Henry Jackson Endowment (part), \$902.78		
Warren Fund for Anatomical		
Museum,	813.52	1,716.80
		15,417.81
From Income of Funds and Gifts for Huntington		
Memorial Cancer Hospital:		
Memorial Cancer Hospital Endowment Fund, . . .	\$3,801.83	
Memorial Cancer Hospital Proctor Maintenance		
Fund,	376.77	
Francis Bartlett Free Bed Fund,	256.00	
T. Jefferson Coolidge for Research,	102.40	
Caroline Brewer Croft Fund,	4,711.68	
William Endicott Fund,	1,280.00	
Lawrence Carteret Fenno Fund,	1,024.00	
L. C. Fenno Memorial Free Bed Fund,	256.00	
Flattery Research Fund,	677.86	
Franklin H. Hooper Memorial Free Bed Fund,	256.00	
A. L. Hopkins Free Bed Fund,	256.00	
Maria D. Lockwood Memorial,	2,597.33	
George von L. Meyer Fund,	32.61	
Julia M. Moseley Fund,	875.00	
Clara E. Payson Memorial Free Bed Fund, . .	256.00	
Research Laboratory Fund,	458.36	
Gifts for current expenses,	15,588.00	
Gifts for salaries,	3,750.00	
Gifts for services of technician,	1,840.00	38,895.84
From Sundry Gifts for Special Purposes,		30,873.94
From fees received for use of microscopes,		849.92
Appropriations.		
Advertising and catalogues,	\$663.61	
Anatomy,	7,275.00	
Animal Farm,	1,500.00	
Books and service for the library,	4,583.44	
Physiology,	3,571.58	
Comparative Physiology,	1,160.00	
Biological Chemistry,	4,817.12	
Bacteriology,	3,219.07	
Pathology,	1,988.46	
Preventive Medicine and Hygiene,	3,378.42	
Pharmacology,	3,799.41	
Amounts carried forward,	\$35,451.11	\$94,198.04

MEDICAL SCHOOL (CONTINUED)

EXPENDITURE

Amounts brought forward,		\$35,451.11	\$94,193.04
Appropriations (continued).			
Pediatrics,		\$50.00	
Surgery,		1,760.00	
Obstetrics,		75.00	
Diseases of the Nervous System,		250.00	
Medicine,		2,806.88	
Laryngology,		300.00	40,692.99
Administrative expenses.			
Salaries,		\$4,191.97	
Services and wages,		3,541.54	
Office supplies and expenses,		872.08	8,605.59
General.			
Salaries for instruction :			
From Austin Teaching Fellowships,	\$1,250.05		
Edward Hickling Bradford Fellowship,	1,125.00		
Arthur Tracy Cabot Fellowship,	800.00		
Charles Follen Folsom Fellowship,	575.00		
Sundry Funds and Gifts,	95,824.72		
General Income,	42,261.88	\$141,336.15	
Stationery, postage, telephone and telegraph,	1,572.45		
Printing,	33.40		
Boston Medical Library,	150.00		
Diplomas,	319.75		
Dues Association of Medical Colleges,	25.00		
Blue books,	77.40		
Sundries,	19.28		
Repairs and equipment, land and buildings,	4,611.75		
Caretaking, land and buildings,	16,562.15		
Heat and power,	139,698.69	304,406.00	
Retiring allowance,		1,000.00	
Interest on advances,		2,610.04	
University charge.			
President's Office, salaries and expenses,	\$1,274.71		
Treasurer's Office, care of investments,	2,036.55		
Bursar's Office, collections and payments,	3,261.29		
Inspector of Grounds and Buildings, salary and expenses,	366.38		
Annual Catalogue,	276.22		
Quinquennial Catalogue,	277.05		
Purchasing Agent,	39.33	7,581.53	
Amount carried forward,		\$459,039.19	

MEDICAL SCHOOL (CONTINUED)

EXPENDITURE

Amount brought forward, \$459,089.19

Balance constituted as follows :

Balance of restricted income

Added to Funds and Gifts, \$72,439.00

Carried to General Suspense, 851.67

Surplus of general income carried to General Suspense and used in payment of previous advances, 33,644.70

\$106,935.37

Less

Deficiency of restricted income met by

Charges against Funds and Gifts, \$5,658.94

Advances charged to General Suspense, 8,263.19 13,917.18 93,018.24

\$552,057.48

SCHEDULE 18

GRADUATE SCHOOL OF MEDICINE

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds and Gifts.

Graduate School of Medicine balance, interest, . .	\$348.26		
James C. Melvin Fund,	1,486.90		
Frederick C. Shattuck Fund,	6,750.31		
Gifts for School of Tropical Medicine :			
Gifts,	\$14,750.00		
Interest,	150.88		
Other receipts,	177.15	15,078.03	\$23,658.50

Tuition and other fees,	12,400.00		
			<u>\$36,058.50</u>

EXPENDITURE

For School of Tropical Medicine,			\$6,084.84
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Dean's Office.

Services and wages,	\$1,181.11		
Equipment and supplies,	208.63		
Stationery, postage, telephone and telegraph, . . .	124.79		
Printing,	64.21		
Sundries,	1.85	1,580.09	

General.

Salaries,	\$4,851.90		
Printing,	470.18		
Advertising,	53.69		
Medical School for laboratory fees and supplies, .	482.74		
Sundries,	52.01	5,910.52	

University charge.

Bursar's Office, collections and payments,	\$47.92		
Annual Catalogue,	14.13	62.05	
			<u>\$13,637.00</u>

Balance constituted as follows :

Balance of restricted income added to Funds and Gifts,	\$17,230.90		
Surplus of general income carried to General Sus- pense for future use,	5,190.60	22,421.50	
			<u>\$36,058.50</u>

SCHEDULE 19

**DENTAL SCHOOL
INCOME AND EXPENDITURE**

For the year ended June 30, 1919

INCOME

Income of Funds and Gifts.

Dental School Endowment (1880),	\$488.23
Dental School Endowment (1911),	1,884.45
Dental School Endowment of the Class of 1886,	2.56
“ “ “ “ “ “ 1888,	5.12
“ “ “ “ “ “ 1891,	4.86
“ “ “ “ “ “ 1892,	5.02
“ “ “ “ “ “ 1893,	5.12
“ “ “ “ “ “ 1901,	.67
“ “ “ “ “ “ 1904,	.77
“ “ “ “ “ “ 1907,	.51
“ “ “ “ “ “ 1909,	2.56

Harvard Dental Alumni Endowment:

Interest,	\$324.86	
Gifts to be added to income, . . .	10.00	334.86
John D. Bryant,	608.56	
Helen Collamore,	517.12	
Calvin and Lucy Ellis Aid (part),	487.39	
Maria Antoinette Evans Bequest,	99.08	
Norman H. George Bequest,	106.29	
Katherine C. Pierce Endowment,	588.21	
Proctor Bequest,	25.60	
Mary F. Russell Bequest,	256.00	
Joseph Warren Smith, Jr.,	528.64	
Henry C. Warren Endowment,	1,177.60	\$6,574.22

Receipts from students.

Tuition fees:		
Regular courses,	\$21,445.52	
Less transferred to Medical School,	5,950.00	
	<u>\$15,495.52</u>	
Students' Army Training Corps, . . .	3,180.30	
“ “ “ “ Naval		
Unit,	<u>1,104.70</u>	<u>\$19,730.52</u>
Chemistry, breakage and supplies,	1,433.22	
General laboratory fees,	1,128.25	
Mechanical and operative dentistry, breakage and supplies,	786.47	
Examination fees,	63.00	<u>23,141.46</u>
Amount carried forward,		<u>\$39,715.68</u>

DENTAL SCHOOL (CONTINUED)

INCOME

Amount brought forward,		\$29,715.68
Fees from Infirmary,		17,161.16
Sale of gold and platinum	\$2,817.08	
" instruments,	87.50	
" radiographs,	1,450.50	
" books,	59.00	
Use of rooms by State Board for examination in Dentistry,	150.00	
Interest on special bank deposit,	84.06	
Sundry receipts,	364.97	4,963.11
		<hr/>
		\$51,839.95
Balance constituted as follows :		
Deficiency of restricted income met by charges against Funds and Gifts,	\$531.17	
Deficiency of general income carried to General Suspense,	17,669.40	
	<hr/>	\$18,200.57
Less Balance of restricted income carried to Funds and Gifts,	304.28	17,896.29
		<hr/>
		<u>\$69,736.24</u>

EXPENDITURE

From Funds and Gifts.		
Calvin and Lucy Ellis Aid (part),	\$487.89	
Harriet Newell Lowell,	531.17	\$1,018.56
	<hr/>	
Dean's Office.		
Services and wages,		1,500.00
General.		
Salaries for instruction,	\$19,400.00	
Services and wages,	11,355.14	
Equipment and supplies,	12,879.64	
Stationery, postage, telephone and telegraph,	775.08	
Printing,	702.26	
Advertising,	1,204.42	
Books,	27.25	
Laundry,	492.73	
Diplomas,	185.95	
Rent of piano,	45.00	
Boston Medical Library,	50.00	
Dues to Institute of Dental Teachers,	20.00	
	<hr/>	
Amounts carried forward,	\$47,137.42	\$2,518.56

DENTAL SCHOOL (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$47,187.42	\$2,518.56
General (continued).		
Refunds to patients,	196.50	
Proctors,	76.00	
Travelling expenses,	150.00	
Dues to Dental Faculties Association of American Universities,	50.00	
Blue books,	37.26	
Assessment for Dental Educational Council of America,	54.25	
Sundries,	182.64	47,884.07
Interest on advances, general school account,	\$2,626.57	
Interest on advances, building account,	5,201.01	7,827.58
Repairs and equipment, land and buildings,	\$178.50	
Caretaking, land and buildings,	10,163.71	10,342.21
University charge.		
President's Office, salaries and expenses,	\$485.91	
Treasurer's Office, care of investments,	56.90	
Bursar's Office, collections and payments,	488.63	
Inspector of Grounds and Buildings, salary and expenses,	9.94	
Annual Catalogue,	67.67	
Quinquennial Catalogue,	42.94	
Purchasing Agent,	11.83	1,163.82
		<u>\$69,786.24</u>

SCHEDULE 20

BUSSEY INSTITUTION

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds and Gifts.

Bussey Trust (part),	\$10,393.95
Bussey Endowment,	6,825.16
Anna C. Ames Memorial Scholarship,	542.81
Mrs. William H. Bliss,	2,589.60

Amount carried forward, \$20,351.02

BUSSEY INSTITUTION (CONTINUED)

INCOME

Amount brought forward,	\$20,351.02	
Income of Funds and Gifts (<i>continued</i>).		
George H. Emerson Scholarship (part), . . .	400.00	
Priscilla Clark Hodges Scholarship,	227.07	
Gordon McKay Endowment (part),	10,783.65	
Gift for Forestry Department, interest,	22.44	
Gifts raised by Visiting Committee, interest, . . .	51.05	
Forestry operations at Petersham,	9,077.67	\$40,912.90
Tuition fees,	\$1,350.00	
Graduation fees,	20.00	
Rent of Antitoxin stable,	1,008.32	
Rent of barn,	50.00	
Rents of dormitory rooms,	250.17	
Rent of house,	600.00	
Laboratory fees,	2.50	
Sale of wood, hay and vegetables,	213.10	
Miscellaneous receipts,	39.16	3,533.25
		<u>\$44,446.15</u>

EXPENDITURE

From Scholarship Funds.		
Anna C. Ames Memorial,	\$400.00	
Mrs. William H. Bliss,	1,125.00	
George H. Emerson,	400.00	\$1,925.00
From Funds and Gifts for special purposes.		
Forestry operations at Petersham,		8,565.21
Scholarships from unrestricted income,		200.00
Salaries,	\$17,875.00	
Services and wages,	5,230.67	
Equipment and supplies,	769.95	
Stationery, postage, telephone and telegraph,	279.07	
Printing,	140.83	
Books,	247.61	
Labor and teaming,	784.98	
Laundry,	40.67	
Binding books,	73.45	
Advertising,	14.56	
General expenses, Department of Forestry,	205.95	
Roadmaking at Petersham,	700.00	
Sundries,	38.11	
Repairs, land and buildings,	1,340.30	
Caretaking, land and buildings,	2,931.46	30,672.61
Amount carried forward,		<u>\$41,862.22</u>

BUSSEY INSTITUTION (CONTINUED)**EXPENDITURE**

Amount brought forward,		\$41,362.22
University charge.		
President's Office, salaries and expenses,	22.08	
Treasurer's Office, care of investments,	315.94	
Bursar's Office, collections and payments,	275.86	
Inspector of Grounds and Buildings, salary and ex-		
penses, . . . . .	.19	
Watchmen, . . . . .	.09	
Annual Catalogue,	49.24	663.40
		<u>\$42,026.22</u>
Balance constituted as follows :		
Balance of restricted income credited to		
Funds and Gifts,	\$1,907.47	
General Suspense,	512.46	2,419.93
		<u><u>\$44,446.15</u></u>

SCHEDULE 21**ARNOLD ARBORETUM****INCOME AND EXPENDITURE**

For the year ended June 30, 1919

INCOME**Income of Funds and Gifts.**

Arnold Arboretum,	\$6,433.28	
Arnold Arboretum Endowment (1917),	13,072.03	
James Arnold,	8,482.71	
Arboretum Construction Gifts, interest,	4,097.69	
Robert Charles Billings,	685.20	
William L. Bradley Fund:		
Interest,	\$1,024.00	
Sales,	1,179.80	2,203.80
Bussey, for the Arnold Arboretum,	118.17	
Helen Collamore Bequest,	129.28	
Maria Antoinette Evans Bequest,	99.08	
Massachusetts Society for Promoting Agriculture, .	422.20	
Francis Skinner,	1,024.00	
Francis Skinner, Jr. Bequest,	512.00	
Bayard and Ruth S. Thayer,	1,199.00	
Edward Whitney,	68.86	
Amount carried forward,	\$38,547.30	

ARNOLD ARBORETUM (CONTINUED)

INCOME

Amount brought forward,	\$38,547.30	
For botanical exploration in China.		
Sale of photographs, material and publi-		
cations,	\$197.80	
Interest,	25.47	223.27
Sears Gift for Library. Interest,	14.26	
Gifts for present use,	23,145.00	61,929.83
Subscriptions to Bulletins of Popular Information, . . .	\$379.90	
Sale of sundry publications,	222.70	
Sale of lantern slides,	84.85	
Sale of Library Catalogue,	60.00	
Sale of herbarium cases,	50.00	
Sale of wood,	256.00	
Sale of duplicate books,	9.50	
Sale of photographs,	5.00	
Share of collector's expenses repaid,	624.54	1,692.49
		<u>\$63,622.32</u>

EXPENDITURE

From Sears Gift for Library,	\$71.85	
For expedition to Korea,	5,664.82	\$5,736.67
General.		
Salaries,	\$7,500.00	
Services and wages,	9,182.40	
Equipment and supplies,	5,708.68	
Stationery, postage, telephone and telegraph, . . .	833.61	
Labor and teaming,	17,205.45	
General printing,	249.88	
Bradley Bibliography of Trees,	526.91	
Expenses of expeditions for collecting,	2,660.52	
Freight, express, etc.,	803.00	
Printing bulletins and expenses of mailing same, . .	467.22	
Portable steel building,	286.00	
Expenses of investigation,	150.00	
Rent of house,	165.00	
Sundries,	109.40	
Water, heat, light, power and protection,	1,095.92	
Repairs, buildings,	2,590.04	49,534.03
Amount carried forward,		\$55,270.70

ARNOLD ARBORETUM (CONTINUED)

EXPENDITURE

Amount brought forward,		\$55,270.70
University charge.		
Treasurer's Office, care of investments,	\$353.98	
Bursar's Office, collections and payments,	248.51	
Purchasing Agent,	6.88	609.37
		<u>\$55,880.07</u>
Balance constituted as follows :		
Balance of restricted income added to Funds and Gifts,	\$493.00	
Balance of general income added to Arboretum Construction Gifts,	11,539.59	
	<u>\$12,032.59</u>	
Less		
Deficiency of restricted income met by charges against Funds and Gifts,	4,290.34	7,742.25
		<u><u>\$63,622.32</u></u>

SCHEDULE 22

BOTANIC GARDEN

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds.		
Botanic Garden balance, interest,	\$32.94	
Botanic Department ($\frac{1}{4}$ income),	1,272.97	
Lowell, for a Botanic Garden,	3,536.64	
John L. Russell ($\frac{1}{4}$ income),	25.60	\$4,858.15
Material supplied courses in Botany,		132.00
		<u>\$4,990.15</u>
Deficiency of income met by		
Previous balances credited to General Suspense,	\$458.76	
Advance charged to General Suspense,	3,621.53	4,080.29
		<u><u>\$9,070.44</u></u>

EXPENDITURE

Labor,	\$6,155.70
Equipment and supplies,	602.20
Stationery, postage, telephone and telegraph,	46.56
Water, heat, light, power and protection,	1,710.00
Repairs and equipment, land and buildings,	323.62
Express and cartage,	84.66
Amount carried forward,	<u>\$8,922.74</u>

BOTANIC GARDEN (CONTINUED)

EXPENDITURE

Amount brought forward,	\$8,922.74	
Travelling expenses,	57.14	\$8,979.88
University charge.		
Treasurer's Office, care of investments,	\$48.57	
Bursar's Office, collections and payments,	41.99	90.56
		<u>\$9,070.44</u>

SCHEDULE 23

BOTANICAL MUSEUM

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Botanical Museum balance, interest,	\$38.28	
Gifts for present use.		
Gift for Botanical Museum:		
Gift,	\$1,500.00	
Interest,	21.58	1,521.58
Gift for Cases, interest,	28.57	\$1,588.38
		<u>\$1,588.38</u>
Balance constituted as follows:		
Deficiency of restricted income met by charges against Funds and Gifts,	\$171.48	
Less surplus of general income carried to General Suspense,	9.17	162.26
		<u>\$1,750.64</u>

EXPENDITURE

From Gift for Cases, Botanical Museum,	\$200.00	
Services and wages,	\$1,200.00	
Equipment and supplies,	300.00	
Stationery, postage, telephone, etc.,	29.89	1,529.89
University charge.		
Bursar's Office, collections and payments,		20.75
		<u>\$1,750.64</u>

GRAY HERBARIUM
INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds.

Gray Herbarium balance, interest,	\$557.27	
Robert Charles Billings,	768.00	
Helen Collamore Bequest,	77.57	
Asa Gray Memorial,	1,695.85	
Asa Gray Professorship of Systematic Botany, .	1,098.29	
Herbarium,	1,057.59	
Rose Hollingsworth,	25.60	
Sarah E. Potter Endowment,	10,316.29	
John L. Russell (1/3 income),	76.80	\$15,673.26
Asa Gray's copyrights,		298.30
Gifts for immediate use,		1,540.00
Sale of card index,		1,101.83
" other publications,		83.90
" duplicate books and pamphlets,		63.32
Miscellaneous receipts,		6.06
		<u>\$18,766.67</u>

EXPENDITURE

From Asa Gray Professorship of Systematic Botany Fund.

Salary of Asa Gray Professor (part),	\$1,098.29	
Salaries,	\$4,735.04	
Services and wages,	5,296.43	
Equipment and supplies,	1,099.75	
Stationery, postage, telephone and telegraph,	167.86	
Printing,	1,495.96	
Books,	618.00	
Binding,	260.05	
Freight and express,	72.11	
Expenses of collectors,	662.50	
Sundries,	18.98	
Repairs and equipment, land and buildings,	114.56	
Caretaking, land and buildings,	1,626.78	16,168.02
University charge.		
Treasurer's Office, care of investments,	\$151.22	
Bursar's Office, collections and payments,	184.77	
Inspector of Grounds and Buildings, salary and expenses,	26.09	
Engineer,	25.47	
Purchasing Agent,	3.43	390.98
		<u>\$17,657.29</u>
Balance of general income carried to General Suspense,		1,109.38
		<u>\$18,766.67</u>

OBSERVATORY INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds and Gifts.

Advancement of Astronomical Science (1901), . .	\$491.42	
Advancement of Astronomical Science (1902), . .	1,013.20	
Amory Astronomical Fund,	2,948.51	
Thomas G. Appleton,	256.00	
J. Ingersoll Bowditch,	128.00	
Uriah A. Boyden,	9,472.00	
Henry Draper Memorial:		
Interest,	\$1,357.16	
Gifts for income,	4,000.00	5,357.16
J. Rayner Edmands,	51.92	
Charlotte Harris,	102.40	
Haven,	2,304.00	
James Hayward,	1,075.20	
Observatory Endowment,	2,560.00	
Paine Professorship,	2,560.00	
Robert Treat Paine,	14,025.32	
Edward B. Phillips,	5,647.05	
E. C. Pickering Fellowship,	559.34	
Josiah Quincy,	565.71	
James Savage ($\frac{1}{4}$ net income),	462.60	
David Sears (1845),	1,403.75	
David Sears (1916),	1,280.00	
Augustus Story,	685.06	\$52,948.64
George R. Agassiz Gift, Catalogue, interest, . .	\$13.22	
Charles S. Hinchman Fellowship, interest, . .	20.00	
Gift to defray cost of publication of Observatory		
Annals, Vol. 91,	73.31	106.53
Use of house by College officer,	\$375.00	
Sale of photographs,	12.25	
" Annals,	31.54	
" sundry publications,	23.29	442.08
		<u>\$53,497.25</u>

Balance constituted as follows:

Deficiency of restricted income met by			
Charges against Funds and Gifts,	\$7,145.68		
Charges against General Suspense,	73.77		
Less		\$7,219.45	
Balance of restricted income added to			
Funds and Gifts,	\$5,202.18		
Balance of general income added to			
Advancement of Astronomical Science			
(1901) Fund,	385.47	5,587.65	1,631.80
			<u>\$55,129.05</u>

OBSERVATORY (CONTINUED)

EXPENDITURE

From Advancement of Astronomical Science Fund (1901).

Overdraft of Uriah A. Boyden Fund, 1918-19,	\$2,444.76	
“ “ Draper Memorial Fund, 1918-19,	3,767.17	\$6,211.93

From George R. Agassiz Gift,		674.46
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From Uriah A. Boyden Fund.

Services and wages,	\$3,871.25
Equipment and supplies,	893.64
Expedition to Jamaica,	2,855.25
Expedition to Peru,	3,762.07
Books,	50.73
Freight, express, etc.,	483.83
	<u>\$11,916.76</u>

Less overdraft transferred to Advancement of Astronomical Science Fund (1901),	2,444.76	9,472.00
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From Draper Memorial Fund.

Administrative and Executive expenses,	\$1,500.00
Services and wages,	4,216.57
Rent and care of space in building,	1,650.00
Share cost printing Annals,	1,757.76
	<u>\$9,124.33</u>

Less overdraft transferred to Advancement of Astronomical Science Fund (1901),	3,767.17	5,357.16
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From Edward C. Pickering Fellowship for Women, 459.22

From Maria Mitchell Fellowship Fund, 581.33

From Josiah Quincy Fund, 822.08

Salaries,	\$13,565.79
Services and wages,	7,945.65
Equipment and supplies,	2,600.03
Stationery, postage, telephone and telegraph,	357.07
Printing,	2,400.78
Binding,	613.35
Books,	196.28
Printing Annals,	4,928.51
Use of house,	90.00
Freight and teaming,	150.89
Labor on grounds,	1,075.86
Laundry work,	40.37
Investigation on spectroscopic binaries,	50.60
Sundries,	27.13
Repairs and equipment, land and buildings,	393.87
Caretaking, land and buildings,	2,041.44
	<u>\$86,477.02</u>

Less amounts transferred

To Draper Memorial Fund,	\$4,907.76	
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To Josiah Quincy Fund,	822.08	5,729.84	30,747.18
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Amount carried forward,		\$54,325.36
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OBSERVATORY (CONTINUED)

EXPENDITURE

Amount brought forward,		\$54,825.36
University charge.		
Treasurer's Office, care of investments,	\$478.06	
Bursar's Office, collections and payments,	283.09	
Inspector's Office, salary and expenses,	47.54	808.69
		<u>\$55,129.05</u>

SCHEDULE 26

BLUE HILL METEOROLOGICAL OBSERVATORY

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of A. Lawrence Rotch Bequest,	\$2,801.66	
" " Waldo E. Forbes Fund,	307.20	
Aimée Sargent Bequest,	894.26	\$4,008.12
Gifts for present use,		1,500.01
		<u>\$5,508.13</u>

Balance constituted as follows:

Deficit of restricted income met by the accumulated income of A. Lawrence Rotch Bequest,	81.51
	<u>\$5,584.64</u>

EXPENDITURE

Salary of Director,	\$1,666.68	
Services and wages,	1,906.00	
Equipment and supplies,	628.78	
Stationery, postage, telephone and telegraph,	134.61	
Printing,	22.57	
Books,	40.50	
Freight and express,	62.48	
Laundry,	25.85	
Repairs, building,	362.79	
Caretaking, building,	694.03	\$5,544.29
University charge.		
Treasurer's Office, care of investments,	\$28.99	
Bursar's Office, receipts and payments,	11.36	40.35
		<u>\$5,584.64</u>

SCHEDULE 27

MUSEUM OF COMPARATIVE ZOÖLOGY

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds.

Museum of Comparative Zoölogy balance, interest,	\$1,864.76	
Agassiz Memorial,	15,254.17	
Alexander Agassiz Bequest, General Purposes.		
Interest,	\$3,046.40	
Allowance from College to increase		
income to rate of income of funds		
in general investments,	2,048.00	5,094.40
Alexander Agassiz Bequest for Publications, .	4,451.17	
George R. Agassiz,	2,560.00	
George R. Agassiz Special Fund,	2,560.00	
Louis Cabot,	267.11	
Virginia Barret Gibbs Scholarship,	349.18	
Gray Fund for Zoölogical Museum,	2,560.00	
Sturgis Hooper,	5,490.48	
Humboldt,	437.08	
Willard Peele Hunnewell,	286.98	
Permanent Fund for Museum of Zoölogy,	6,014.41	
Henry L. Pierce, Residuary (part),	4,915.58	
Teachers' and Pupils',	388.81	
Maria Whitney,	340.53	
Maria Whitney and James Lyman Whitney,	23.50	
Gifts for current use,	1,550.00	\$53,908.11
Use of lecture rooms by Radcliffe College,	\$700.00	
Sale of publications,	121.70	
Sundry sales,	24.00	845.70
		<u>\$54,753.81</u>

EXPENDITURE

From Sturgis Hooper Fund.

Salary of Sturgis Hooper Professor,	\$4,250.00	
Alexander Agassiz Bequest for Publications, . . .	602.00	
Louis Cabot Fund,	25.80	
Humboldt Fund,	55.00	
Willard Peele Hunnewell Fund,	286.98	
Maria Whitney Fund,	94.33	\$5,814.11
Amount carried forward,		<u>\$5,814.11</u>

MUSEUM OF COMPARATIVE ZOÖLOGY (CONTINUED)

EXPENDITURE

Amount brought forward,		\$5,314.11
Salaries,	\$17,666.67	
Services and wages,	9,667.40	
Equipment and supplies,	803.64	
Stationery, postage, telephone and telegraph,	68.48	
Printing,	4,596.73	
Collections and collectors expenses,	265.74	
Books,	277.93	
Binding,	478.28	
Freight, cartage, etc.	206.68	
Laundry work,	80.00	
Repairs, building,	413.98	
Water, heat, light, power and protection,	7,613.17	42,188.70
University charge.		
Treasurer's Office, care of investments,	\$480.40	
Bursar's Office, collections and payments,	182.80	
Inspector of Grounds and Buildings, salary and expenses,	13.03	676.23
		<u>\$48,129.04</u>
Less the following items transferred :		
To the College, Schedule 8:		
Heating and service,	\$8,625.00	
Publishing contributions from the Laboratory of Geography,	200.00	
Services of librarian,	250.00	
	<u>\$4,075.00</u>	
To the University, Schedule 7:		
University charge,	676.23	4,751.23
		<u>\$48,377.81</u>
Balance constituted as follows :		
Balance of restricted income added to		
Funds and Gifts,	\$6,381.87	
Surplus of general income carried to		
General Suspense,	5,044.13	11,376.00
		<u><u>\$54,753.81</u></u>

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY
AND ETHNOLOGY

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds.

Peabody Museum balance, interest,	\$225.10
Henry W. Haynes Bequest,	51.30
Hemenway Fellowship,	717.88
Mary Hemenway Fund for Archaeology, . . .	2,387.69
Francis Cabot Lowell Memorial,	51.20
Peabody Building,	1,484.68
Peabody Collection,	2,478.38
Peabody Professor,	2,478.38
F. W. Putnam Fund,	10.91
Eliza O. and Mary P. Ropes (part),	656.55
Thaw Fellowship,	1,204.61
Henry C. Warren Exploration,	522.50
Susan Cornelia Warren,	256.00
Robert C. Winthrop Scholarship,	361.52
Huntington Frothingham Wolcott,	1,074.64

Gifts for special use.

Gifts,	\$616.00	
Interest,	35.26	
Refund,	244.37	895.63
		\$14,806.87

Sale of publications,	\$43.59	
Sale of duplicate books,	41.75	85.34
		<u>\$14,892.21</u>

EXPENDITURE

Mary Hemenway Fund,	\$2,000.00	
Henry C. Warren Fund, explorations,	95.70	
Huntington Frothingham Wolcott Fund, speci- mens,	1,163.00	
Hemenway Fellowship,	1,250.00	
Thaw Fellowship,	1,206.69	
Gifts for special use,	200.00	\$5,915.39
Salaries,	\$5,200.01	
Museum supplies and incidentals,	345.48	
Museum labels,	86.00	
Freight, express, customs and postage,	101.01	
Telephone, telegraph and messengers,	71.86	
Construction of cases,	339.68	

Amounts carried forward, \$6,144.04 \$5,915.39

PEABODY MUSEUM (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$6,144.04	\$5,915.39
Photo supplies and prints,	23.81	
Explorations,	50.00	
Library books bought,	94.07	
Library binding,	102.20	
Library incidentals,	26.07	
Insurance,	24.85	
Publications,	90.00	
Special appropriation,	22.50	
Repairs and equipment, land and buildings,	250.57	
Caretaking, land and buildings,	4,920.32	11,748.43
University charge.		
Treasurer's Office, care of investments,	\$135.65	
Bursar's Office, collections and payments,	202.56	
Inspector of Grounds and Buildings, salary and expenses,	95.43	
Watchmen,	353.29	
Janitor,	153.82	940.75
Less amounts transferred.		\$18,604.57
Repairs, land and buildings,	\$250.57	
Caretaking, land and buildings,	4,920.32	
University charge,	940.75	6,111.64
The above amounts are transferred as follows :		\$12,492.98
90% to University, Schedule 7,	\$5,500.48	
10% to College, Schedule 8,	611.16	
	<u>\$6,111.64</u>	
Balance constituted as follows :		
Balance of restricted income added to Fund and Gifts, \$1,832.55		
Surplus of general income carried to General		
Suspense,	1,189.29	
	<u>\$3,021.84</u>	
Less Deficiency of restricted income met by charges against Funds and Gifts,	622.56	2,399.28
		<u>\$14,892.21</u>

SEMITIC MUSEUM

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income from Teachers' Endowment (part),	\$2,000.00	
Gifts for Semitic Collection, interest,	18.18	
Gifts for excavations in Palestine, interest,	89.49	
Gifts for general purposes. Gifts,	\$500.00	
Interest,	142.11	642.11
		<u>\$2,694.78</u>

EXPENDITURE

From gifts for Semitic Collection,	\$221.00	
" gifts for excavations in Palestine,	57.40	
" gifts for copying cuneiform tablets,	100.00	\$378.40
Curator,		2,000.00
Repairs and equipment, land and building,	\$30.75	
Caretaking, land and building,	1,637.23	1,667.98
University charge.		
Treasurer's Office, care of investments,	\$20.62	
Bursar's Office, collections and payments,	37.05	
Watchmen,	95.02	
Engineer,	26.56	
Janitor,	82.75	262.00
		<u>\$4,808.88</u>
Less amounts transferred.		
General expenses,	\$1,667.98	
University charge,	262.00	1,929.98
		<u>\$2,878.40</u>
The above amounts are transferred as follows :		
70 % to University, Schedule 7,	\$1,350.99	
30 % to Divinity School, Schedule 15,	578.99	
	<u>\$1,929.98</u>	
Balance constituted as follows :		
Balance of restricted income added to Funds and Gifts,	\$642.11	
Less Deficiency of restricted income met by charges against Funds and Gifts,	325.73	316.88
		<u>\$2,694.78</u>

SCHEDULE 30

GERMANIC MUSEUM
INCOME AND EXPENDITURE
For the year ended June 30, 1919

INCOME

Income of Funds and Gifts.

Germanic Museum balance, interest,	\$395.14	
Emperor William,	1,348.35	
Germanic Museum,	512.72	
Germanic Museum Endowment,	3,727.15	
Hugo Reisinger Bequest,	1,942.07	\$7,925.43
		<u>\$7,925.43</u>

EXPENDITURE

General.

Equipment and supplies,	\$2.75	
Travelling expenses,	46.80	
Dues Archaeological Institute of America,	10.00	
Express, . . . . .	.42	
Repairs and equipment, land and building,	13.48	
Caretaking, land and building,	695.23	\$768.68

University charge.

Treasurer's Office, care of investments,	\$79.28	
Bursar's Office, collections and payments,	13.83	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	.66	
Watchmen,	45.80	
Engineer,	12.81	152.38
		<u>\$921.06</u>

Less University charge transferred to University, Schedule 7, . . .	152.38	
		<u>\$768.68</u>

Balance constituted as follows :

Balance of restricted income added to Funds and Gifts, \$4,960.51		
Balance of general income carried to General Suspense, 2,196.24	7,156.75	
		<u>\$7,925.43</u>

SCHEDULE 31

WILLIAM HAYES FOGG ART MUSEUM

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds and Gifts :

William Hayes Fogg.

Interest, \$2,580.02

Gifts to be added to income, . . . 3,195.82 **\$5,775.84**

Gray Fund for Engravings, 827.75

William M. Prichard, 792.37

John Witt Randall, 1,549.21

Mary R. Searle, 95.23

Gifts from the Society of Friends of the **Fogg Art**
Museum. Gifts, \$1,615.00

Interest, 22.65

Other receipts, 16.55 1,654.20

Gift Mrs. Samuel Sachs for work of art.

Gift, \$2,500.00

Interest, 51.28 2,551.28

Gift Samuel Sachs for water colors, 1,800.00 **\$15,045.88**

Sale of photographs, catalogue, etc., 30.29

\$15,076.17

EXPENDITURE

From the following Funds and Gifts :

Gray Fund for Engravings.

Curator, \$250.00

Services, 163.88

Engravings, 392.70 **\$806.58**

William M. Prichard, collections, 594.89

John Witt Randall.

Curator, \$250.00

Expenses, 1,406.04 1,656.04

Mary R. Searle, books, 38.38

Gift of Samuel Sachs for water colors, 1,800.00

Gift for purchase of water color, 16.55 **\$4,912.44**

General.

Director, \$500.00

Services and wages, 1,436.48

Equipment and supplies, 804.87

Stationery, postage, telephone and telegraph, . . . 336.67

Insurance, 889.24

Honorarium to lecturer, 50.00

Printing, 79.76

Amounts carried forward, \$4,097.02 \$4,912.44

WILLIAM HAYES FOGG ART MUSEUM (CONTINUED)

EXPENDITURE

Amounts brought forward,	\$4,097.02	\$4,912.44
General (<i>continued</i>).		
Expenses loan exhibition of French Art,	1,680.00	
Freight, express, and motor service,	250.49	
Legal services,	40.00	
Travelling expenses,	17.96	
Repairs and equipment, building,	19.30	
Caretaking, building,	4,600.78	10,705.55
University charge.		
Treasurer's Office, care of investments,	\$56.26	
Bursar's Office, collections and payments,	172.42	
Inspector of Grounds and Buildings, salary and expenses,	189.80	
Engineer,	89.83	
Watchmen,	140.66	548.47
		<u>\$16,166.46</u>
Less amounts transferred.		
Caretaking, building,	\$4,600.78	
University charge,	548.47	5,149.25
		<u>\$11,017.21</u>
The above amounts are transferred as follows :		
10 % to University, Schedule 7,	\$514.93	
90 % to College, Schedule 8,	4,634.32	
	<u>\$5,149.25</u>	
Balance constituted as follows :		
Balance of restricted income added to Funds and Gifts,	\$4,480.98	
Less Deficiency of restricted income met by Charges against Funds and Gifts,	422.02	4,058.96
		<u>\$15,076.17</u>

SCHEDULE 32

APPLETON CHAPEL

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds.		
Fund for Religious Services,	\$52.94	
Increase Sumner Wheeler,	2,602.50	
Edward Wigglesworth Memorial,	7,680.00	\$10,335.44
Use of organ,		101.18
		<u>\$10,436.62</u>
Balance constituted as follows :		
Deficiency of restricted income met by charges against Funds and Gifts,		388.54
		<u>\$10,825.16</u>

APPLETON CHAPEL (CONTINUED)

EXPENDITURE

General.

Preaching and morning services,	\$3,865.00	
Administrator,	400.00	
Organist and Choir-master,	1,500.00	
Choir,	2,097.70	
Equipment and supplies,	493.85	
Printing,	192.33	
Music,	53.64	
Board of preachers,	50.90	
Work on organ,	227.48	
Decorations at Christmas service,	50.00	
Laundry work,	14.58	
Repairs and equipment, land and buildings,	29.94	
Caretaking, land and buildings,	1,446.47	\$10,421.89

University charge.

Treasurer's Office, care of investments,	\$99.17	
Bursar's Office, collections and payments,	97.82	
Inspector of Grounds and Buildings, salary and expenses,	49.67	
Watchmen,	72.82	
Janitor,	63.42	
Engineer,	20.37	408.27
		<u>\$10,825.16</u>

SCHEDULE 33

PHILLIPS BROOKS HOUSE

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Income of Funds.

Phillips Brooks House Endowment,	\$537.96	
John W. and Belinda L. Randall,	393.32	
Ralph H. Shepard,	580.81	
Ralph Hamilton Shepard Memorial,	303.15	
Louise E. Bettens,	136.40	
Phillips Brooks House Association Endowment,	4,017.31	\$5,968.95
		<u>\$5,968.95</u>

PHILLIPS BROOKS HOUSE (CONTINUED)

EXPENDITURE

Phillips Brooks House Association,	\$4,600.00	
Services and wages,	188.82	
Equipment and supplies,	142.55	
Rent of piano,	45.00	
Contribution to Harvard Dames,	50.00	
Laundry,	32.33	
Sundries,	10.13	
Repairs and equipment, land and building,	239.69	
Caretaking, land and building,	2,614.49	\$7,918.01
<hr/>		
University charge.		
Treasurer's Office, care of investments,	\$56.54	
Bursar's Office, collections and payments,	76.08	
Inspector of Grounds and Buildings, salary and expenses,	37.84	
Watchmen,	51.37	
Engineer,	14.38	
Janitor,	44.74	280.95
		<hr/>
		\$8,198.96
Less amounts transferred.		
Repairs and equipment, land and building,	\$239.69	
Caretaking, land and building,	2,614.49	
University charge,	280.95	3,135.13
		<hr/>
		\$5,063.83
Balance constituted as follows :		
Balance of restricted income added to Funds and Gifts, \$947.03		
Less Deficiency of restricted income met by		
Charges against Funds and Gifts,	41.91	905.12
		<hr/>
		\$5,968.95
<hr/>		
The above amounts are transferred as follows :		
10% to University, Schedule 7,	\$313.51	
Remainder, divided in proportion to the number of students :		
College, Schedule 8,	2,186.80	
Schools of Architecture, Schedule 12,	37.29	
Schools of Engineering and Mining, Schedule 13,	50.00	
Graduate School of Business Administration, Schedule 14,	134.76	
Divinity School, Schedule 15,	48.22	
Law School, Schedule 16,	369.55	
		<hr/>
		\$3,135.13
		<hr/>

SCHEDULE 34

GYMNASIUM
INCOME AND EXPENDITURE
For the year ended June 30, 1919

INCOME

Fees for the use of		
Lockers, by students,	\$762.00	\$762.00
Deficit transferred to the following departments in proportion to the number of students.		
College, Schedule 8,	\$6,886.02	
Schools of Architecture and Landscape Architecture, Schedule 12,	117.43	
Schools of Engineering and Mining, Schedule 13,	157.47	
Graduate School of Business Administration, Schedule 14,	424.86	
Divinity School, Schedule 15,	136.61	
Law School, Schedule 16,	1,163.67	8,886.06
		<u>\$9,648.06</u>

EXPENDITURE

Salaries,	\$5,500.00	
Services and wages,	1,252.65	
Apparatus,	49.75	
Equipment and supplies,	21.30	
Stationery, postage, telephone and telegraph,	54.33	
Printing,	31.45	
Sundries,	18.76	
Caretaking,	2,535.41	
Repairs,	86.34	\$9,549.99
University charge.		
Bursar's Office, collections and payments,	\$92.88	
Purchasing Agent,	5.19	98.07
		<u>\$9,648.06</u>

SCHEDULE 35

STILLMAN INFIRMARY
INCOME AND EXPENDITURE
For the year ended June 30, 1919

INCOME

Income of Funds and Gifts.		
Robert Charles Billings, for Stillman Infirmary,	\$3,100.47	
Free Bed Fund of the Class of 1868,	326.50	
Amount carried forward,	\$3,426.97	

STILLMAN INFIRMARY (CONTINUED)

INCOME

Amount brought forward,	\$3,426.97	
Income of Funds and Gifts (<i>continued</i>).		
Free Bed Fund for the Stillman Infirmary, . . .	33.43	
Herbert Schurz Memorial Free Bed Fund, . .	237.21	
Stillman Infirmary Gift, interest,	538.37	
Joseph and Lucius Tuckerman Free Bed, .	512.00	
Henry P. Walcott,	164.05	\$4,912.03
Receipts from Students.		
Infirmary annual fees,	\$3,384.00	
Receipts from patients,	9,066.53	12,450.53
Receipts to replace amounts not charged students who pay the increased tuition fee:		
College. Schedule 8,	\$7,296.00	
Schools of Architecture and Landscape Architecture.		
Schedule 12,	120.00	
Schools of Engineering and Mining, Schedule 13, .	152.00	
Graduate School of Business Administration.		
Schedule 14,	540.00	8,108.00
		<u>\$25,470.56</u>
Balance constituted as follows:		
Deficit of general income transferred to University, \$11,881.08		
<i>Less</i>		
Balance of restricted income added to Funds and Gifts,	538.37	10,842.71
		<u>\$36,313.27</u>

EXPENDITURE

Services and wages,	\$12,907.47	
Equipment and supplies,	12,883.32	
Stationery, postage, telephone and telegraph,	255.41	
Printing,	21.42	
Sundries,	152.20	
Repairs and equipment, land and buildings,	507.15	
Caretaking, land and buildings,	8,535.59	\$35,262.56
University charge.		
Treasurer's Office, care of investments,	\$47.04	
Bursar's Office, collections and payments,	190.70	
Medical Adviser, salary and expenses,	750.00	
Inspector of Grounds and Buildings, salary and expenses,	24.98	
Engineer,	36.54	
Purchasing Agent,	1.50	1,050.71
		<u>\$36,313.27</u>

SCHEDULE 36

NON-DEPARTMENTAL FUNDS AND GIFTS FOR SPECIAL PURPOSES

INCOME AND EXPENDITURE

For the year ended June 30, 1919

INCOME

Anonymous Fund,		\$5,579.24
Anonymous Fund No. 2 :		
Interest,	\$1,087.62	
Rents Riverview Estate,	636.47	1,724.09
Anonymous Fund No. 4,		14,175.39
Anonymous Gift for Anonymous Purpose,		
Gift,	\$150.00	
Other receipts,	350.00	500.00
Gifts for Arnold Arboretum Building, interest,		53.80
J. Arthur Beebe (part),		2,148.28
Bussey Trust (part),		3,564.98
Gift from the Carnegie Foundation,		62,967.25
Class of 1834 Fund,		122.88
" 1853 "		167.63
" 1854 "		189.49
" 1856 "		622.64
" 1857 "		300.00
" 1858 "		100.35
" 1864 "		164.76
Dr. John C. Cutter Bequest (part),		428.20
Henry Isaiah Dorr Bequest,		3,950.00
Paul Dudley Fund,		254.41
High Voltage Electrical Laboratory, interest,		133.24
Germanic Museum Building, interest,		748.95
Godkin Lectures Fund,		1,004.39
Gray Herbarium, gift for construction, interest,		33.58
Gifts for New Gymnasium Building, interest,		445.74
Gift for flagpole on Stadium, interest,		20.80
Gurney Fund (part),		112.34
Harvard Memorial Society, interest,		94.92
Ingersoll Lecture Fund,		390.35
Horatio King Fund (part),		400.72
Morris Loeb Bequest,		20,038.86
James J. Myers Fund,		5,169.72
William Belden Noble Lectures Fund.		
Interest,	\$1,590.02	
Sales,	6.02	1,596.04
Henry S. Nourse Fund (part),		1,007.10
John Knowles Paine Fund. Interest,		1,840.86
Robert Troup Paine,		3,050.80
Amount carried forward,		\$182,601.20

**NON-DEPARTMENTAL FUNDS AND GIFTS,
ETC. (CONTINUED)**

INCOME

Amount brought forward,		\$182,601.20
Professorship of Hygiene (1899) Fund (part),		7,441.08
" " " (1902) " 		3,382.39
" " " (1908) " 		3,463.63
Lectures on Political Economy Fund,		775.63
Quarterly Journal of Economics.		
Income of John E. Thayer Fund,	\$837.33	
Sales,	2,241.71	3,079.04
Retiring Allowance Fund. Interest,		21,080.14
Josiah Royce Memorial,		365.47
Wallace C. Sabine Memorial.		
Interest,	\$21.76	
Gift for income,	2,000.00	2,021.76
Gardiner Hubbard Scudder Fund,		513.89
George Smith Bequest,		764.57
Stoughton Fund,		38.16
Alexander Wheelock Thayer Fund (part),		480.00
Gifts for Tropical Medicine Hospital, interest,		232.00
Ira D. Van Duzee Scholarship Fund,		270.18
War Activities Fund.		
Gifts,	\$5,023.81	
Interest,	1,049.77	
Other receipts,	1,169.26	7,242.84
Charles Wilder Fund,		2,765.52
Daniel Williams Fund,		874.70
Sarah Winslow Fund,		246.37
Woodland Hill Fund, use of laboratory,		1,000.00
		\$188,538.52
Balance constituted as follows :		
Deficiency of restricted income met by		
Charges against Funds and Gifts,	\$28,914.21	
Advances charged to General Suspense,	121.97	
	\$29,036.18	
Less Balance of restricted income added to		
Funds and Gifts,	\$27,747.39	
General Suspense,	580.97	28,328.36
		707.82
		\$189,246.34

**NON-DEPARTMENTAL FUNDS AND GIFTS,
ETC. (CONTINUED)**

EXPENDITURE

Anonymous Fund (part), annuity,	\$5,600.00	
Anonymous Fund No. 4,	12,097.78	
Anonymous Gift for Anonymous Purpose,	500.00	
J. Arthur Beebe Bequest, expenses of real estate,	2,148.23	
Daniel A. Buckley Fund, taxes Deer Isle, Maine,	\$1.71	
Expenses real estate, Cambridge,	2,761.84	2,763.55
Bussey Trust (part).		
Annuities,	\$2,000.00	
Taxes,	1,564.93	3,564.93
Gift from the Carnegie Foundation, Retiring Allowances,	62,967.25	
Class of 1853 Fund,	167.63	
" 1857 " 	300.00	
" 1864 " 	165.47	
Dr. John C. Cutter Bequest, annuity,	428.20	
Henry Isaiah Dorr Bequest, annuity,	3,950.00	
Paul Dudley Fund, Dudley lectures,	100.00	
Germanic Museum Building construction,	840.68	
Gray Herbarium, gift for construction,	253.58	
Gurney Fund (part) annuities,	112.84	
Harvard Endowment Fund, share 1917-18 income paid to		
Harvard Alumni Association,	1,924.58	
Harvard Memorial Society Fund,	74.58	
Professorship of Hygiene, (1899) Fund, annuity,	6,000.00	
Horatio King, annuity,	400.72	
Morris Loeb Bequest, annuity,	21,850.14	
James J. Myers Fund, annuities,	7,000.00	
William Belden Noble Lectures Fund,	571.27	
Henry S. Nourse Fund, annuity,	1,007.10	
John K. Paine Fund, annuity,	1,245.00	
Quarterly Journal of Economics,	3,554.71	
Reserve Officers' Training Corps (gift),	468.54	
Retiring Allowance Fund,	16,076.19	
Wallace C. Sabine Memorial, Annuity,	1,000.00	
Gardiner Hubbard Soudder Fund, annuity,	517.32	
George Smith Bequest, annuities,	600.00	
Stoughton, expense of real estate,	38.16	
Alexander Wheelock Thayer, annuities,	480.00	
Ira D. Van Duzee Fund, annuity,	196.22	
War Activities Fund.		
Reserve Officers' Training Corps,	\$6,210.05	
American University Union in Europe,	12,715.24	
Training Yacht "Adventuress,"	206.21	
Amounts carried forward,	\$19,181.50	\$158,964.12

**NON-DEPARTMENTAL FUNDS AND GIFTS,
ETC. (CONTINUED)**

EXPENDITURE

Amounts brought forward,		\$19,131.50	\$158,964.12
War Activities Fund (continued).			
Aid to former members of the Students' Army Training Corps,			
		1,087.55	
Publication of Harvard War Records,		316.12	
Office expenses, Commandant of the Field Artillery Reserve Corps,			
		280.41	
Expenses War Records Office,		2,500.00	
Salary, biographer of the Harvard Dead in the war against Germany,			
		2,000.00	
Work at Gibbs Laboratory,		737.47	
Miscellaneous,		613.99	
			26,667.04
Charles Wilder Fund, annuities,			2,460.00
Daniel Williams Fund. Treasurer for Mashpee Indians, . .			488.38
Sarah Winslow Fund.			
Minister at Tyngsborough,		\$120.81	
Teacher at Tyngsborough,		120.81	
Commission on income, credited to University, . .		6.20	247.82
Woodland Hill Fund. Interest on advances,			419.08
			<u>\$189,246.34</u>

*Certificate of the Committee of the Overseers of Harvard College, for
examining the Accounts of the Treasurer*

The committee appointed by the Overseers of Harvard College to examine the accounts of the Treasurer, for the year ending June 30, 1919, have, with the assistance of an expert chosen by them, examined and audited the Cash-book and Journal, covering the period from July 1st, 1918, to June 30th, 1919, inclusive, and have seen that all the bonds, notes, mortgages, certificates of stock, and other evidences of property, which were on hand at the beginning of said year, or have been received by him during said year, are now in his possession, or are fully accounted for by entries made therein. They have also noticed all payments, both of principal and interest, indorsed on any of said bonds or notes, and have seen that the amounts so indorsed have been duly credited to the College.

They have in like manner satisfied themselves that all the entries for moneys expended by the Treasurer, or charged in his books to the College, are well vouched; such of them as are not supported by counter entries, being proved by regular vouchers and receipts.

They have also, by the aid of said expert, satisfied themselves that all the entries for said year are duly transferred to the Ledger, and that the accounts there are rightly cast, and correctly balanced.

(Signed)

JOHN W. HALLOWELL, *Chairman*,
CARL TILDEN KELLER,
F. ABBOT GOODHUE,

*Of the
Committee on behalf of the
Board of Overseers.*

Boston, December, 1919.

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Two or more entries on a page are indicated by a small figure at the right of the page number: 20* indicates three entries on page 20.

Abbreviations are used as follows:—

<i>A.</i> ,	Arnold Arboretum;	<i>L.</i> ,	Law School;
<i>B.</i> ,	Book Funds;	<i>M.</i> ,	Medical School;
<i>Be.</i> ,	Beneficiary and Loan Funds;	<i>O.</i> ,	Observatory;
<i>C.</i> ,	College;	<i>P.</i> ,	Professorship Funds;
<i>D.</i> ,	Divinity School;	<i>Pr.</i> ,	Prize Funds;
<i>F.</i> ,	Fellowship Funds;	<i>S.</i> ,	Scholarship Funds;
<i>G.B.</i> ,	Graduate School of Business Administration.	<i>S.I.</i> ,	Stillman Infirmary;
		<i>U.</i> ,	University.

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